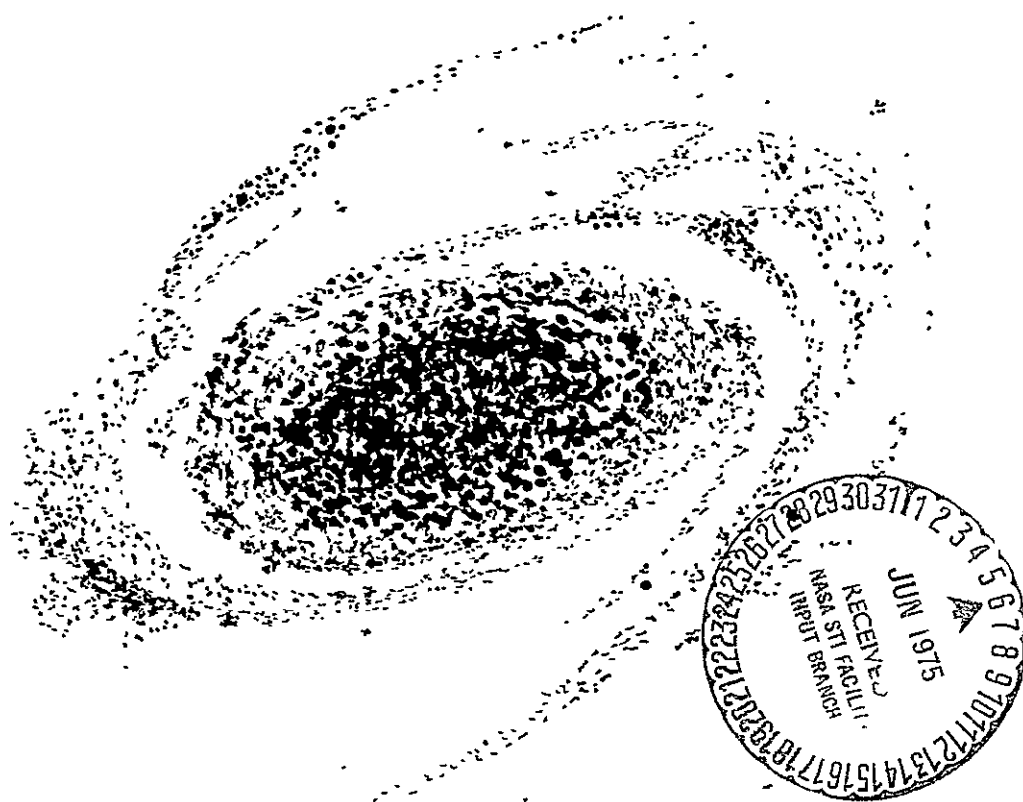


A TABLE OF SEMIEMPIRICAL g_f VALUES Part 1

R.L. KURUCZ and E. PEYTREMANN



Smithsonian Astrophysical Observatory
SPECIAL REPORT 362

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Research in Space Science
SAO Special Report No. 362

(NASA-CR-142879) A TABLE OF SEMIEMPIRICAL
gf VALUES. PART 1: WAVELENGTHS: 5.2682 nm
TO 272.3380 nm (Smithsonian Astrophysical
Observatory) 415 p HC

N75-24599

CSCI 03A

Unclas

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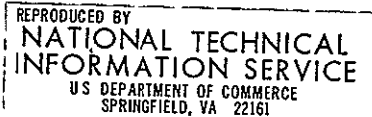
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in three parts

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February 14, 1975



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ABSTRACT

We tabulate gf values for 265,587 atomic lines selected from the line data used by Kurucz, Peytremann, and Avrett (1974) to calculate line-blanketed model atmospheres. These data are especially useful for line identification and spectral synthesis in solar and stellar spectra.

Except for 10,000 lines taken from the literature, the gf values have been calculated semiempirically by using scaled Thomas-Fermi-Dirac radial wavefunctions and eigenvectors found through least-squares fits to observed energy levels. Included in the calculation were the first five or six stages of ionization for sequences up through nickel. Published gf values have been included for elements heavier than nickel.

The tabulation is restricted to lines with wavelengths less than 10 μm .

RESUME

Nous donnons la liste des valeurs gf pour 265 587 raies atomiques choisies parmi les valeurs de raies utilisées par Kurucz, Peytremann et Avrett (1974) pour calculer les modèles d'atmosphères avec "line blanketing." Ces données sont particulièrement utiles pour identifier les raies et faire la synthèse spectrale dans les spectres du soleil et des étoiles.

Sauf pour 10 000 raies qui ont été prises dans des revues, les valeurs gf ont été calculées d'une façon semi-empirique en utilisant les fonctions d'onde radiales étalonnées de Thomas-Fermi-Dirac, et les vecteurs propres déterminés en essayant d'adapter, par la méthode des moindres carrés, leurs niveaux d'énergie à ceux observés. Le calcul a inclus les cinq ou six premiers états d'ionisation pour des séquences jusqu'au nickel compris. Les valeurs gf publiées ont été incluses pour des éléments plus lourds que le nickel.

Le tableau est limité aux raies de longueurs d'onde inférieures à 10 μm .

КОНСПЕКТ

Представлены расчеты значений gf для 265 587 атомных линий, отобранных из линейных данных, которыми пользовались Куруч, Пейтреманн и Аврет (1974 г.) для вычисления теоретических атмосфер, покрытых линиями. Эти данные особенно полезны для опознавания линий и спектрального синтеза солнечных и звездных спектров.

За исключением 10 000 линий, отобранных по научной литературе, величины gf были определены полуэмпирическим путем с помощью пересчитанных радиальных волновых функций Томаса-Ферми-Дирака и собственных векторов, найденных методом наименьших квадратов, который удовлетворял наблюдаемым энергетическим уровням. В вычисления были включены первые пять или шесть стадий ионизации для последовательностей вплоть до никеля. Для элементов с удельным весом больше удельного веса никеля приводятся опубликованные значения.

Расчеты представлены лишь для линий, длина волны которых меньше 10 мкм.

MAGNETIC-TAPE LISTING

These data are available on magnetic tape in a slightly different form, usually including configuration assignments. It is currently available as a 7-track 800-bpi binary tape (60-bit words) along with a FORTRAN program that reads it. We are willing to discuss other formats. To obtain a copy, send a 2400-foot tape to

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Cambridge, Massachusetts 02138

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INTRODUCTION

The work described here is part of a long-term project to calculate realistic line-blanketed model atmospheres for the whole range of stellar spectral types.

The first attempt to include the effects of a large number of lines in a model-atmosphere calculation was that of Strom and Kurucz (1966), in which 30,000 lines were used to construct crude distribution functions for a model of Procyon (6500 K). Most of the lines were from Corliss and Bozman (1962), with many iron-group lines from papers by Corliss and by Warner (e.g., Corliss and Warner, 1965; Corliss, 1965; Warner, 1967). Peytremann (1970) has calculated a grid of blanketed models using approximately the same lines in a Monte Carlo treatment. These investigations and subsequent ones have shown that the available line lists are seriously incomplete and do not predict observed blanketing without considerable augmentation.

There has been little improvement in this situation since that time. The most prominent additional work for our purposes appears in two National Bureau of Standards publications – hydrogen through neon by Wiese, Smith, and Glenmon (1966) and sodium through calcium by Wiese, Smith, and Miles (1969) – but these compilations are limited to a relatively small number of lines for which the data are "reliable." Warner (1968, and subsequent papers) has done large-scale calculations of one- and two-electron spectra for use in abundance analyses, but he has not extended this work to the high-quantum-number upper levels that form the series of lines that lead up to the absorption edges in the ultraviolet. In the meantime, many of the old iron group and the Corliss and Bozman measurements have been discredited (Takens, 1970). Better experimental techniques are now available, so that some of the iron gf values have been reduced by as much as a factor of 10 (see Huber and Parkinson, 1972, for references). Even so, the 10-year-old Corliss and Bozman list remains the largest source for the heavier elements.

In blanketing calculations, it is important to have as complete a line list as possible. The temperature structure in a heavily blanketed stellar atmosphere is

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determined more by the amount of space between the lines where the flux can escape than by the lines themselves. Thus, if a large number of weak lines are included, they can fill in the spaces and make a considerable difference in the flux that emerges.

In 1970, Kurucz began a limited project to fill in the missing ultraviolet lines for light elements that could be computed easily. Programs were written to calculate scaled Thomas-Fermi-Dirac wavefunctions, following Warner (1968), and to perform least-squares fits to energy levels to determine Slater parameters and eigenvectors. Kurucz and Peytremann began to collaborate in 1971 and were able to borrow the program RCGM5 written by Cowan (1968, subsequently revised to include configuration interaction). When Slater parameters and radial integrals are given, this program calculates electrostatic and spin-orbit matrices, eigenvalues, LS transition arrays, and finally gf values. Since this program was available, Kurucz and Peytremann decided to calculate as many lines as practical for use in blanketed models. Kurucz had collected almost all the recent papers published on atomic spectroscopy and line strengths. He used these to make lists of all known energy levels through the fifth and sixth stages of ionization. Next, these energy levels were used to calculate scaled Thomas-Fermi-Dirac wavefunctions for elements up through calcium and all the possible transition integrals. Peytremann modified Cowan's program to find Slater parameters through least-squares fits to the observed energy levels and then used the program to predict unobserved energy levels and wavelengths and to calculate gf values for all possible lines between configurations for which observed energy levels were available. The result was 150,000 lines in the isoelectronic sequences for boron ($Z=5$) through calcium ($Z=20$) for the first five or six stages of ionization. The vast majority of these lines belong to neutral and singly ionized atoms.

Kurucz worked on the iron group through nickel, dividing Cowan's program into subprograms for calculating electrostatic and spin-orbit matrices and LS transition arrays, and then revising these subprograms for the purpose of handling large arrays. (Neutral manganese 4p configurations require 169×169 matrices.) He also wrote a least-squares program for the Slater parameters and programs to find eigenvectors and gf values. Fortunately, Racah and Shadmí (1959), Shadmí (1962), and Roth (1968, and subsequent papers) had published Slater parameters for many of the configurations, so the problem was tractable in a few months. Wavefunctions were computed for each

configuration by using the least-squares average energy. The result was 1,600,000 lines in the isoelectronic sequences for scandium ($Z = 21$) through nickel ($Z = 28$) for the first five stages of ionization. The majority of these lines belong to neutral and singly ionized atoms.

Details of this semiempirical method for computing gf values have been given by Kurucz (1973). We have begun to publish the least-squares fits and transition arrays for individual atoms (Kurucz, 1974), and we are preparing papers comparing our calculations with laboratory measurements.

To these calculated gf values, we have added all the previously published data that we had available for the He I and II, lithium, and beryllium sequences and for elements heavier than nickel ($Z = 28$). The total comes to 1,760,000 lines.

From this list, we have selected for tabulation here 265,587 lines, which have the following properties:

- a) Both the lower and the upper energy levels have observed values (not predicted). See Edlén (1973) for a bibliography.
- b) $\log gf$ is greater than -9.99 if the lower energy level is less than $15000 Z_{\text{eff}} \text{ cm}^{-1}$; Z_{eff} is the charge of the ion plus 1.
- c) $\log gf$ is greater than -5.00 if the lower energy level is greater than $15000 Z_{\text{eff}} \text{ cm}^{-1}$.
- d) The lower energy level is below the ionization limit.
- e) The wavelength is less than 10000 nm.

This abbreviated line list can be used as a starting point for detailed investigations of stellar and plasma spectra, but with qualifications: First, the list is not complete, because a) diatomic molecules are missing, b) elements heavier than nickel are poorly represented, c) higher stages of ionization are missing, and d) lines from configurations that do not have sufficient spectroscopic data could not be calculated.

Second, it is difficult to estimate errors in our calculated gf values. In cases examined thus far, we have not found large systematic errors in scale, but, at this

point, we cannot rule out errors in scale of a factor of 2 for some ions. Relative errors can be estimated by examining mixing in the eigenvectors, which we will eventually publish. Since resonance lines often arise from levels that are only slightly mixed, eigenvectors are well defined and LS-allowed transitions are well treated in our calculations. Thus, for such lines, the relative gf values should be reliable. The gf values for weak lines can be uncertain by orders of magnitude because of uncertainties in the eigenvectors. They have been included mainly for the purpose of line identification.

As mentioned above, comparisons with laboratory measurements and a discussion of errors will be published elsewhere.

We hope to improve the line data by revising and updating the current data, by adding data for heavier elements, by including higher stages of ionization, and by adding diatomic molecules. We also hope to include line-broadening data for individual strong lines. We would greatly appreciate receiving preprints and reprints of papers on atomic and molecular spectroscopy and on gf value measurements and calculations. The address for Kurucz is listed on page v.

ACKNOWLEDGMENTS

We are grateful to many people for their assistance in this project. We thank Dr. Robert D. Cowan for the use of his computer program and for helpful advice, and we thank Dr. Kenneth L. Andrew and Dr. Bruce W. Shore for their assistance. Edward L. Wright answered several questions on numerical analysis. Philip A. Isenberg worked with the spectroscopic data and helped find Slater parameters. Anne H. Kennedy was particularly helpful in running the programs to calculate the line strengths. Philip Harrison assisted in the final phase of this project.

Finally, we wish to acknowledge the support of a Smithsonian Research Foundation Fellowship (to Kurucz) and an International Fellowship (to Peytremann) sponsored by the European Space Research Organization and the National Aeronautics and Space Administration.

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TABLE DESCRIPTION

The lines are tabulated by wavelength, 218 per page, in blocks of 109. For each line, we list wavelength in nm, element identification, $\log gf$, and energy in cm^{-1} and J value for the lower and upper levels. For wavelengths greater than 200 nm, the air wavelength (Edlén, 1953) is given. The element identification is the atomic number plus 0.01 times the ionic charge; for example, 23.02 stands for V^{++} , or V III.

BIOGRAPHICAL NOTES

ROBERT L. KURUCZ received his A.B. degree in astronomy from Harvard College in 1966 and his Ph.D. in astronomy from Harvard University in 1973. From 1968 to 1972, he was a Predoctoral Research Fellow, and from 1972 to 1973, a Postdoctoral Research Fellow of the Smithsonian Research Foundation. He was a Research Fellow at Harvard College Observatory from 1973 to 1974. Dr. Kurucz currently is a Physicist at the Smithsonian Astrophysical Observatory, where his principal fields of investigation concern radiative transfer and stellar atmospheres.

ERIC PEYTREMANN studied at the University of Geneva, where he received the Diplome de Physicien in 1964, the Certificat d'Astronomie et d'Astrophysique in 1968, and a Ph.D. in Astronomy in 1970. During this time, he was a Research Assistant at the Observatory of Geneva, except in 1964, when he was a Visiting Astronomer at the European Southern Observatory, Zeekoegat, South Africa. From 1971 to 1973, he was an ESRO-NASA Postdoctoral Research Fellow at Harvard University. He is currently at the University at Mons (Belgium), under contract with the Fonds de Recherche Fondamentale Collective. Dr. Peytremann's major fields of investigation are stellar atmospheres and the interpretation of stellar and interstellar ultraviolet observations.

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WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5.2682	5.03	-87	0.000	0.0	1898181.542	0.0	7.7278	12.05	-4.48	0.000	1.5	1294034.000	.5
6.0313	5.03	-21	0.000	0.0	1658017.343	0.0	7.7278	12.05	-3.87	0.000	1.5	1294034.000	1.5
6.3177	15.05	-2.36	0.000	0.0	1582860.000	1.0	7.7411	14.05	-1.38	0.000	1.5	1291800.000	1.5
6.3450	15.05	-2.06	0.000	0.0	1576040.000	1.0	7.7429	14.05	-4.43	0.000	1.5	1291510.000	2.5
6.6796	14.05	-7.79	0.000	1.5	1497100.000	2.5	7.7466	12.05	-4.59	0.000	1.5	1290882.000	1.5
6.8167	13.05	-1.80	0.000	2.0	1466990.000	3.0	7.7466	12.05	-3.76	0.000	1.5	1290882.000	2.5
6.8223	13.05	-1.33	0.000	2.0	1465780.000	2.0	7.7472	12.05	-4.58	56361.000	2.5	1347151.000	3.5
6.8351	13.05	-1.81	2736.000	1.0	1465780.000	2.0	7.7567	12.05	-4.20	56340.000	1.5	1345550.000	2.5
6.9121	15.05	-1.94	0.000	0.0	1446740.000	1.0	7.7568	12.05	-4.18	56361.000	2.5	1345550.000	2.5
6.9176	14.05	-1.36	0.000	1.5	1445590.000	1.5	7.7576	12.05	-4.70	56340.000	1.5	1345405.000	2.5
6.9203	14.05	-4.46	0.000	1.5	1445030.000	1.5	7.7577	12.05	-1.89	56361.000	2.5	1345405.000	2.5
6.9204	14.05	-4.43	0.000	1.5	1445000.000	2.5	7.7628	12.05	-5.41	0.000	1.5	1288199.000	2.5
6.9236	14.05	-4.80	0.000	1.5	1444340.000	.5	7.7698	13.05	-3.94	88210.000	0.0	1375250.000	1.0
6.9421	14.05	-4.64	5097.000	.5	1445590.000	1.5	7.7718	14.05	-4.57	5097.000	.5	1291800.000	1.5
6.9448	14.05	-1.15	5097.000	.5	1445030.000	1.5	7.7722	12.05	-4.79	56340.000	1.5	1342985.000	1.5
6.9452	15.05	-1.64	0.000	0.0	1439840.000	1.0	7.7722	12.05	-5.03	56340.000	1.5	1342985.000	2.5
6.9481	14.05	-1.32	5097.000	.5	1444340.000	.5	7.7723	12.05	-3.53	56361.000	2.5	1342985.000	1.5
7.0134	13.05	-3.50	41140.000	2.0	1466990.000	3.0	7.7723	12.05	-4.12	56361.000	2.5	1342985.000	2.5
7.0193	13.05	-4.04	41140.000	2.0	1465780.000	2.0	7.7845	12.05	-7.32	56340.000	1.5	1340950.000	.5
7.1107	14.05	-4.71	0.000	1.5	1406330.000	1.5	7.7845	12.05	-7.02	56340.000	1.5	1340950.000	1.5
7.1181	14.05	-4.26	0.000	1.5	1404870.000	2.5	7.7845	12.05	-6.84	56340.000	1.5	1340950.000	2.5
7.1273	14.05	-2.52	0.000	1.5	1403050.000	1.5	7.7945	13.05	-2.22	0.000	2.0	1282960.000	1.0
7.1301	14.05	-1.53	0.000	1.5	1402510.000	.5	7.7945	13.05	-1.05	0.000	2.0	1282960.000	2.0
7.1340	14.05	-2.48	0.000	1.5	1401740.000	2.5	7.7945	13.05	-1.30	0.000	2.0	1282960.000	3.0
7.1366	14.05	-2.00	5097.000	.5	1406330.000	1.5	7.8111	13.05	-1.07	2736.000	1.0	1282960.000	1.0
7.1384	14.05	-2.66	0.000	1.5	1400880.000	1.5	7.8111	13.05	-4.59	2736.000	1.0	1282960.000	2.0
7.1457	14.05	-4.50	0.000	1.5	1399450.000	1.5	7.8178	13.05	-4.95	3831.000	0.0	1282960.000	1.0
7.1474	14.05	-3.34	0.000	1.5	1399110.000	2.5	7.8239	11.05	-3.85	1858.000	2.0	1279991.000	3.0
7.1533	14.05	-4.51	5097.000	.5	1403050.000	1.5	7.8306	12.05	-2.78	56340.000	1.5	1333380.000	1.5
7.1561	14.05	-1.28	5097.000	.5	1402510.000	.5	7.8306	12.05	-3.23	56340.000	1.5	1333380.000	2.5
7.1644	14.05	-3.22	5097.000	.5	1400880.000	1.5	7.8307	12.05	-3.63	56361.000	2.5	1333380.000	1.5
7.1718	14.05	-3.14	5097.000	.5	1399450.000	1.5	7.8307	12.05	-2.53	56361.000	2.5	1333380.000	2.5
7.2245	12.05	-5.64	0.000	1.5	1384183.000	1.5	7.9219	12.05	-8.02	56340.000	1.5	1318670.000	2.5
7.2245	12.05	-5.01	0.000	1.5	1384183.000	2.5	7.9280	12.05	-8.15	56340.000	1.5	1317697.000	1.5
7.2324	12.05	-6.55	0.000	1.5	1382667.000	2.5	7.9332	12.05	-4.08	85022.000	1.5	1345550.000	2.5
7.2629	13.05	-1.97	0.000	2.0	1376860.000	3.0	7.9341	12.05	-3.88	85022.000	1.5	1345405.000	2.5
7.2714	13.05	-2.50	0.000	2.0	1375250.000	1.0	7.9429	12.05	-2.63	0.000	1.5	1258984.000	2.5
7.2714	13.05	-1.33	0.000	2.0	1375250.000	2.0	7.9486	12.05	-3.59	84900.000	.5	1342985.000	1.5
7.2714	13.05	-4.58	0.000	2.0	1375250.000	3.0	7.9494	12.05	-2.56	85022.000	1.5	1342985.000	1.5
7.2720	13.05	-1.06	0.000	2.0	1375140.000	2.0	7.9494	12.05	-3.77	85022.000	1.5	1342985.000	2.5
7.2810	13.05	-4.43	0.000	2.0	1373440.000	3.0	7.9566	13.05	-3.45	88210.000	0.0	1345030.000	1.0
7.2859	13.05	-1.32	2736.000	1.0	1375250.000	1.0	7.9622	12.05	-4.75	85022.000	1.5	1340950.000	1.5
7.2859	13.05	-4.85	2736.000	1.0	1375250.000	2.0	7.9622	12.05	-5.06	85022.000	1.5	1340950.000	.5
7.2865	13.05	-1.64	2736.000	1.0	1375140.000	2.0	7.9622	12.05	-4.58	85022.000	1.5	1340950.000	2.5
7.2896	14.05	-2.44	0.000	1.5	1371820.000	1.5	7.9816	13.05	-3.48	88210.000	0.0	1341090.000	1.0
7.2896	14.05	-1.44	0.000	1.5	1371820.000	2.5	7.9817	12.05	-4.67	0.000	1.5	1252866.000	.5
7.2917	13.05	-1.20	3831.000	0.0	1375250.000	1.0	7.9830	12.05	-3.38	0.000	1.5	1252662.000	1.5
7.2928	13.05	-1.07	0.000	2.0	1371220.000	2.0	7.9834	12.05	-1.72	0.000	1.5	1252598.000	2.5
7.3074	13.05	-1.22	2736.000	1.0	1371220.000	2.0	7.9857	12.05	-4.24	0.000	1.5	1252238.000	2.5
7.3188	14.05	-1.68	5097.000	.5	1371820.000	1.5	7.9919	13.05	-2.83	88210.000	0.0	1339480.000	1.0
7.4251	13.05	-1.86	0.000	2.0	1346780.000	3.0	8.0032	12.05	-3.41	0.000	1.5	1249500.000	.5
7.4319	12.05	-4.55	0.000	1.5	1345550.000	2.5	8.0075	12.05	-1.88	0.000	1.5	1248829.000	1.5
7.4326	13.05	-2.05	0.000	2.0	1345430.000	2.0	8.0075	12.05	-1.19	0.000	1.5	1248829.000	2.5
7.4327	12.05	-4.41	0.000	1.5	1345405.000	2.5	8.0097	12.05	-4.74	84900.000	.5	1333380.000	1.5
7.4348	13.05	-4.61	0.000	2.0	1345030.000	1.0	8.0105	12.05	-1.45	85022.000	1.5	1333380.000	1.5
7.4442	13.05	-4.46	0.000	2.0	1343320.000	2.0	8.0105	12.05	-4.51	85022.000	1.5	1333380.000	2.5
7.4461	12.05	-3.68	0.000	1.5	1342985.000	1.5	8.0355	11.05	-4.68	35518.000	2.0	1279991.000	3.0
7.4461	12.05	-3.98	0.000	1.5	1342985.000	2.5	8.0395	14.05	-4.71	0.000	1.5	1243860.000	1.5
7.4477	13.05	-3.15	2736.000	1.0	1345430.000	2.0	8.0449	14.05	-4.98	0.000	1.5	1243020.000	2.5
7.4499	13.05	-1.14	2736.000	1.0	1345030.000	1.0	8.0490	14.05	-1.88	0.000	1.5	1242390.000	1.5
7.4560	13.05	-1.79	3831.000	0.0	1345030.000	1.0	8.0490	14.05	-1.04	0.000	1.5	1242390.000	1.5
7.4566	13.05	-2.93	0.000	2.0	1341090.000	1.0	8.0501	14.05	.20	0.000	1.5	1242220.000	2.5
7.4574	12.05	-1.36	0.000	1.5	1340950.000	.5	8.0527	13.05	-5.48	41140.000	2.0	1282960.000	1.0
7.4574	12.05	-1.05	0.000	1.5	1340950.000	1.5	8.0527	13.05	-4.73	41140.000	2.0	1282960.000	2.0
7.4574	12.05	-4.88	0.000	1.5	1340950.000	2.5	8.0527	13.05	-3.99	41140.000	2.0	1282960.000	3.0
7.4594	13.05	-1.12	2736.000	1.0	1343320.000	2.0	8.0576	14.05	-4.34	0.000	1.5	1241060.000	.5
7.4656	13.05	-3.52	0.000	2.0	1339480.000	1.0	8.0640	12.05	-7.34	56340.000	1.5	1296416.000	.5
7.4656	13.05	-1.60	0.000	2.0	1339480.000	2.0	8.0697	14.05	-1.98	0.000	1.5	1239200.000	.5
7.4656	13.05	-4.47	0.000	2.0	1339480.000	3.0	8.0697	14.05	-4.69	0.000	1.5	1239200.000	.5
7.4719	13.05	-2.64	2736.000	1.0	1341090.000	1.0	8.0726	14.05	0.00	5097.000	.5	1243860.000	1.5
7.4780	13.05	-1.94	3831.000	0.0	1341090.000	1.0	8.0795	12.05	-1.27	56340.000	1.5	1294034.000	.5
7.4809	13.05	-1.53	2736.000	1.0	1339480.000	1.0	8.0795	12.05	-1.94	56340.000	1.5	1294034.000	1.5
7.4809	13.05	-4.76	2736.000	1.0	1339480.000	2.0	8.0797	12.05	-1.09	56361.000	2.5	1294034.000	1.5
7.4866	13.05	-4.13	41140.000	2.0	1376860.000	3.0	8.0822	14.05	-1.39	5097.000	.5	1242390.000	1.5
7.4870	13.05	-1.25	3831.000	0.0	1339480.000	1.0	8.0822	14.05	-4.63	5097.000	.5	1242390.000	1.5
7.4956	13.05	-5.21	41140.000	2.0	1375250.000	1.0	8.0909	14.05	-4.72	5097.000	.5	1241060.000	.5
7.4956	13.05	-4.03	41140.000	2.0	1375250.000	2.0	8.0934	12.05	-6.55	0.000	1.5	1235582.000	1.5
7.4956	13.05	-3.28	41140.000	2.0	1375250.000	3.0	8.0934	12.05	-5.48	0.000	1.5	1235582.000	2.5
7.4963	13.05	-1.56	41140.000	2.0	1375140.000	2.0	8.1002	12.05	-4.66	56340.000	1.5	1290882.000	1.5
7.4997	12.05	-5.82	0.000	1.5	1333380.000	1.5	8.1002	12.05	-1.23	56340.000	1.5	1290882.000	2.5
7.4997	12.05	-4.85	0.000	1.5	1333380.000	2.5	8.1003	12.05	-1.52	56361.			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8.3481	12.05	-2.27	56361.000	2.5	1254243.000	3.5
8.3520	14.05	-2.26	0.000	1.5	1197320.000	2.5
8.3560	12.05	-1.56	0.000	1.5	1196740.000	2.5
8.3575	12.05	-4.26	56340.000	1.5	1252866.000	.5
8.3590	12.05	-3.85	56340.000	1.5	1252662.000	1.5
8.3591	12.05	-3.84	56361.000	2.5	1252662.000	1.5
8.3594	12.05	-4.44	56340.000	1.5	1252598.000	2.5
8.3595	12.05	-1.75	56361.000	2.5	1252598.000	2.5
8.3609	14.05	-1.06	0.000	1.5	1196040.000	1.5
8.3612	14.05	-4.40	5097.000	.5	1201100.000	1.5
8.3619	12.05	-1.81	56340.000	1.5	1252238.000	2.5
8.3621	12.05	-2.84	56361.000	2.5	1252238.000	2.5
8.3650	11.05	-1.39	35518.000	2.0	1230972.000	3.0
8.3684	14.05	-2.55	0.000	1.5	1194970.000	.5
8.3700	13.05	-4.19	88210.000	0.0	1282960.000	1.0
8.3729	14.05	-2.22	0.000	1.5	1194330.000	1.5
8.3797	11.05	-4.21	35518.000	2.0	1228882.000	2.0
8.3802	14.05	-1.74	0.000	1.5	1193290.000	2.5
8.3811	12.05	-2.64	56340.000	1.5	1249500.000	.5
8.3844	11.05	-3.69	35518.000	2.0	1228205.000	3.0
8.3858	12.05	-2.82	56340.000	1.5	1248829.000	1.5
8.3858	12.05	-2.48	56340.000	1.5	1248829.000	2.5
8.3860	12.05	-3.07	56361.000	2.5	1248829.000	1.5
8.3860	12.05	-4.61	56361.000	2.5	1248829.000	2.5
8.3967	14.05	-6.66	5097.000	.5	1196040.000	1.5
8.4043	14.05	-4.19	5097.000	.5	1194970.000	.5
8.4088	14.05	-1.68	5097.000	.5	1194330.000	1.5
8.4800	12.05	-1.50	56340.000	1.5	1235582.000	1.5
8.4800	12.05	-2.35	56340.000	1.5	1235582.000	2.5
8.4802	12.05	-2.45	56361.000	2.5	1235582.000	1.5
8.4802	12.05	-1.30	56361.000	2.5	1235582.000	2.5
8.5146	13.05	-1.55	0.000	2.0	1174450.000	3.0
8.5182	12.05	-4.46	85022.000	1.5	1258984.000	2.5
8.5393	13.05	-3.09	0.000	2.0	1171050.000	1.0
8.5423	13.05	-1.02	0.000	2.0	1170650.000	2.0
8.5515	13.05	.04	0.000	2.0	1169390.000	3.0
8.5532	13.05	-1.61	0.000	2.0	1169150.000	2.0
8.5566	13.05	-4.45	0.000	2.0	1168690.000	2.0
8.5593	13.05	-4.23	2736.000	1.0	1171050.000	1.0
8.5612	13.04	-9.7	0.000	1.5	1168060.000	1.5
8.5619	12.05	-4.00	84900.000	.5	1252866.000	.5
8.5623	13.05	-4.49	2736.000	1.0	1170650.000	2.0
8.5628	12.05	-4.95	85022.000	1.5	1252866.000	.5
8.5634	12.05	-3.17	84900.000	.5	1252662.000	1.5
8.5643	12.05	-4.86	85022.000	1.5	1252662.000	1.5
8.5648	12.05	-2.85	85022.000	1.5	1252598.000	2.5
8.5656	12.05	-3.34	56340.000	1.5	1223804.000	2.5
8.5657	12.05	-1.48	56361.000	2.5	1223804.000	2.5
8.5662	13.04	-1.19	0.000	1.5	1167380.000	.5
8.5674	12.05	-2.83	85022.000	1.5	1252238.000	2.5
8.5674	13.05	-2.82	3831.000	0.0	1171050.000	1.0
8.5704	12.05	-1.17	56361.000	2.5	1223169.000	3.5
8.5724	13.05	-1.70	0.000	2.0	1165530.000	3.0
8.5733	13.05	-4.44	2736.000	1.0	1169150.000	2.0
8.5767	13.05	-1.14	2736.000	1.0	1168690.000	2.0
8.5818	13.05	-3.87	0.000	2.0	1165260.000	2.0
8.5865	13.05	-9.8	0.000	2.0	1164620.000	1.0
8.5865	13.04	-1.57	3442.000	.5	1168060.000	1.5
8.5866	12.05	-1.67	84900.000	.5	1249500.000	.5
8.5875	12.05	-1.99	85022.000	1.5	1249500.000	.5
8.5915	12.05	-1.63	3442.000	.5	1167380.000	.5
8.5916	12.05	-2.39	84900.000	.5	1248829.000	1.5
8.5925	12.05	-2.02	85022.000	1.5	1248829.000	1.5
8.5925	12.05	-3.57	85022.000	1.5	1248829.000	2.5
8.6020	13.05	-2.59	2736.000	1.0	1165260.000	2.0
8.6067	13.05	-8.8	2736.000	1.0	1164620.000	1.0
8.6097	13.05	-1.04	2736.000	1.0	1164220.000	0.0
8.6148	13.05	-1.57	3831.000	0.0	1164620.000	1.0
8.6581	11.05	-4.93	103628.000	2.0	1258613.000	3.0
8.6905	12.05	-1.97	84900.000	.5	1235582.000	1.5
8.6914	12.05	-2.52	85022.000	1.5	1235582.000	1.5
8.6914	12.05	-1.74	85022.000	1.5	1235582.000	2.5
8.6938	13.05	-3.60	0.000	2.0	1150250.000	3.0
8.7013	13.04	-1.85	0.000	1.5	1149260.000	1.5
8.7020	13.04	-8.9	0.000	1.5	1149160.000	2.5
8.7274	13.04	-1.11	3442.000	.5	1149260.000	1.5
8.7335	13.05	-6.8	0.000	2.0	1145020.000	1.0
8.7488	12.05	-2.43	56340.000	1.5	1199360.000	1.5
8.7489	12.05	-1.36	56361.000	2.5	1199360.000	1.5
8.7544	13.05	-2.28	2736.000	1.0	1145020.000	1.0
8.7549	13.05	-1.74	0.000	2.0	1142220.000	2.0
8.7591	13.05	-7.8	0.000	2.0	1141670.000	1.0
8.7628	13.05	-5.4	3831.000	0.0	1145020.000	1.0
8.7655	13.05	-1.18	0.000	2.0	1140840.000	2.0
8.7689	12.05	-8.54	56340.000	1.5	1196740.000	2.5
8.7690	12.05	-6.79	56361.000	2.5	1196740.000	2.5
8.7759	13.05	-2.89	2736.000	1.0	1142220.000	2.0
8.7783	13.05	-5.58	2736.000	1.0	1141910.000	0.0
8.7801	13.05	-4.37	2736.000	1.0	1141670.000	1.0
8.7807	11.05	-2.20	1858.000	2.0	1140721.000	3.0
8.7813	12.05	-2.98	85022.000	1.5	1223804.000	2.5
8.7865	13.05	-1.11	2736.000	1.0	1140840.000	2.0
8.7886	13.05	-6.65	3831.000	0.0	1141670.000	1.0
8.7989	13.05	-2.22	0.000	2.0	1136500.000	1.0
8.8053	11.05	-4.17	698.000	1.0	1136378.000	2.0
8.8143	11.05	-4.48	1858.000	2.0	1136378.000	2.0
8.8170	13.05	-1.69	0.000	2.0	1134170.000	1.0
8.8170	13.05	-1.16	0.000	2.0	1134170.000	2.0
8.8170	13.05	.07	0.000	2.0	1134170.000	3.0
8.8202	13.05	-1.54	2736.000	1.0	1136500.000	1.0
8.8223	11.05	-1.68	0.000	0.0	1133491.000	1.0
8.8237	13.05	-1.7	41140.000	2.0	1174450.000	3.0
8.8248	11.05	-1.36	698.000	1.0	1133871.000	2.0
8.8270	11.05	-1.15	1858.000	2.0	1134746.000	3.0
8.8277	11.05	-1.09	698.000	1.0	1133491.000	1.0
8.8287	13.05	-1.70	3831.000	0.0	1136500.000	1.0
8.8314	4.02	-1.90	0.000	0.0	1132323.301	0.0
8.8325	13.05	-1.95	0.000	2.0	1132180.000	2.0
8.8338	11.05	-1.67	1858.000	2.0	1133871.000	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8.8367	13.04	-2.35	0.000	1.5	1131650.000	1.5
8.8368	11.05	-3.52	1858.000	2.0	1133491.000	1.0
8.8383	13.05	-6.62	2736.000	1.0	1134170.000	1.0
8.8383	13.05	-6.60	2736.000	1.0	1134170.000	2.0
8.8425	13.04	-7.79	0.000	1.5	1130900.000	2.5
8.8460	11.05	-2.78	204131.000	3.0	1334585.000	2.0
8.8460	11.05	-1.23	204131.000	3.0	1334585.000	3.0
8.8460	11.05	-1.17	204131.000	3.0	1334585.000	4.0
8.8467	11.05	-4.11	204222.000	2.0	1334585.000	3.0
8.8469	13.05	-7.79	3831.000	0.0	1134170.000	1.0
8.8469	11.05	-1.44	698.000	1.0	1131032.000	2.0
8.8503	13.05	-1.41	41140.000	2.0	1171050.000	1.0
8.8534	13.05	-6.66	41140.000	2.0	1170650.000	2.0
8.8539	13.05	-1.72	2736.000	1.0	1132180.000	2.0
8.8547	13.04	-1.83	0.000	1.5	1129350.000	.5
8.8547	13.04	-1.16	0.000	1.5	1129350.000	1.5
8.8560	11.05	-4.38	1858.000	2.0	1131032.000	2.0
8.8633	13.05	-1.36	41140.000	2.0	1169390.000	3.0
8.8636	13.04	-9.90	3442.000	.5	1131650.000	1.5
8.8652	13.05	-1.03	41140.000	2.0	1169150.000	2.0
8.8653	11.05	-5.36	698.000	1.0	1128693.000	2.0
8.8674	13.04	-3.05	0.000	1.5	1127730.000	1.5
8.8688	13.05	-7.76	41140.000	2.0	1168690.000	2.0
8.8688	13.04	-3.71	0.000	1.5	1127550.000	2.5
8.8744	11.05	-2.50	1858.000	2.0	1128693.000	2.0
8.8817	13.04	-1.55	3442.000	.5	1129350.000	.5
8.8817	13.04	-1.59	3442.000	.5	1129350.000	1.5
8.8858	13.05	-9.99	41140.000	2.0	1166530.000	3.0
8.8906	12.05	-8.19	0.000	1.5	1124778.000	1.5
8.8906	12.05	-7.09	0.000	1.5	1124778.000	2.5
8.8945	13.04	-3.57	3442.000	.5	1127730.000	1.5
8.8958	13.05	-1.83	41140.000	2.0	1165260.000	2.0
8.9009	13.05	-2.54	41140.000	2.0	1164620.000	1.0
8.9730	12.05	-2.28	84900.000	.5	1199360.000	1.5
8.9739	12.05	-1.56	85022.000	1.5	1199360.000	1.5
8.9951	12.05	-5.36	85022.000	1.5	1196740.000	2.5
9.0098	12.04	-4.09	0.000	2.0	1109900.000	2.0
9.0162	13.05	.48	41140.000	2.0	1150250.000	3.0
9.0453	14.04	-1.93	0.000	0.0	1105550.000	1.0
9.0481	11.05	-9.03	35518.000	2.0	1140721.000	3.0
9.0590	13.05	-1.75	41140.000	2.0	1145020.000	1.0
9.0631	13.04	-6.69	0.000	1.5	1103380.000	1.5
9.0646	13.04	-6.64	0.000	1.5	1103190.000	2.5
9.0647	15.05	-7.78	0.000	0.0	1103180.000	1.0
9.0700	13.04	-8.84	0.000	1.5	1102540.000	.5
9.0794	13.0					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9.3596	12.05	-1.08	56361.000	2.5	1124778.000	2.5	9.8302	11.05	-0.95	241341.000	0.0	1258613.000	1.0
9.3653	13.04	-2.04	0.000	1.5	1067770.000	1.5	9.8302	11.05	-1.81	241341.000	2.0	1258613.000	1.0
9.3755	13.04	-0.27	0.000	1.5	1066610.000	2.5	9.8302	11.05	-1.15	241341.000	2.0	1258613.000	2.0
9.3856	13.04	-0.67	0.000	1.5	1065460.000	1.5	9.8302	11.05	-1.73	241341.000	2.0	1258613.000	3.0
9.3882	13.04	-1.45	0.000	1.5	1065170.000	1.5	9.8367	12.04	-1.84	1780.000	1.0	1018382.000	2.0
9.3956	13.04	-0.52	3442.000	0.5	1067770.000	1.5	9.8407	12.04	-1.25	1780.000	1.0	1017972.000	1.0
9.3981	13.04	-1.53	0.000	1.5	1064050.000	2.5	9.8444	12.04	-2.29	1780.000	1.0	1017590.000	2.0
9.4016	13.04	-1.72	0.000	1.5	1063650.000	1.5	9.8471	12.04	-1.77	0.000	2.0	1015523.000	1.0
9.4089	13.04	-2.91	0.000	1.5	1062820.000	1.5	9.8478	12.04	-3.29	2519.000	0.0	1017972.000	1.0
9.4117	12.05	-4.59	0.000	1.5	1062506.000	2.5	9.8510	12.05	-4.29	85022.000	1.5	1100146.000	1.5
9.4117	13.04	-3.58	0.000	1.5	1062510.000	2.5	9.8510	12.05	-4.11	85022.000	1.5	1100146.000	2.5
9.4160	13.04	-1.19	3442.000	0.5	1065460.000	1.5	9.8510	12.05	-4.59	85022.000	1.5	1100146.000	0.5
9.4167	12.05	-5.61	0.000	1.5	1061943.000	1.5	9.8603	12.05	-1.04	84900.000	0.5	1099073.000	0.5
9.4186	13.04	-1.17	3442.000	0.5	1065170.000	0.5	9.8614	12.05	-0.72	85022.000	1.5	1099073.000	0.5
9.4321	13.04	-2.28	3442.000	0.5	1063650.000	1.5	9.8620	11.05	-4.58	320589.000	1.0	1334585.000	2.0
9.4395	13.04	-3.66	3442.000	0.5	1062820.000	1.5	9.8631	12.04	-1.94	0.000	2.0	1013878.000	1.0
9.4424	11.05	-1.89	74434.000	0.0	1133491.000	1.0	9.8631	12.04	-0.96	0.000	2.0	1013878.000	2.0
9.4424	13.05	-3.25	88210.000	0.0	1145020.000	1.0	9.8631	12.04	-0.71	0.000	2.0	1013878.000	3.0
9.4765	11.05	-4.65	35518.000	2.0	1090756.000	2.0	9.8644	12.04	-0.94	1780.000	1.0	1015523.000	1.0
9.4833	11.05	-1.77	204131.000	3.0	1258613.000	2.0	9.8716	12.04	-1.17	2519.000	0.0	1015523.000	1.0
9.4833	11.05	-0.87	204131.000	3.0	1258613.000	3.0	9.8755	11.05	-0.25	241341.000	2.0	1253947.000	3.0
9.4841	11.05	-2.22	204222.000	2.0	1258613.000	1.0	9.8805	12.04	-2.62	1780.000	1.0	1013878.000	1.0
9.4841	11.05	-1.05	204222.000	2.0	1258613.000	2.0	9.8805	12.04	-0.75	1780.000	1.0	1013878.000	2.0
9.4841	11.05	-0.32	204222.000	2.0	1258613.000	3.0	9.8811	11.05	-1.15	241341.000	2.0	1253369.000	2.0
9.4925	13.05	-2.33	88210.000	0.0	1141670.000	1.0	9.8877	12.04	-1.14	2519.000	0.0	1013878.000	1.0
9.5182	11.05	-0.07	204131.000	3.0	1254750.000	4.0	9.8983	12.04	-0.60	35890.000	2.0	1046167.000	3.0
9.5255	11.05	-1.13	204131.000	3.0	1253947.000	3.0	9.8992	11.05	-1.42	204131.000	3.0	1214311.000	2.0
9.5263	11.05	-4.01	204222.000	2.0	1253947.000	3.0	9.9001	11.05	-1.60	204222.000	2.0	1214311.000	2.0
9.5307	11.05	-2.68	204131.000	3.0	1253369.000	2.0	9.9024	12.04	-2.02	35890.000	2.0	1045743.000	1.0
9.5316	11.05	-4.91	204222.000	2.0	1253369.000	2.0	9.9067	12.04	-1.10	35890.000	2.0	1045308.000	2.0
9.5385	12.05	-0.18	0.000	1.5	1048383.000	0.5	9.9084	12.05	-0.91	84900.000	0.5	1094141.000	1.5
9.5393	13.05	-2.44	88210.000	0.0	1136500.000	1.0	9.9094	14.05	-1.25	0.000	1.5	1009140.000	0.5
9.5421	12.05	-0.11	0.000	1.5	1047987.000	1.5	9.9096	12.05	-0.18	85022.000	1.5	1094141.000	1.5
9.5464	11.05	-0.33	103628.000	2.0	1151140.000	1.0	9.9132	12.05	-0.60	84900.000	0.5	1093653.000	0.5
9.5483	12.05	-0.29	0.000	1.5	1047307.000	2.5	9.9144	12.05	-0.96	85022.000	1.5	1093653.000	0.5
9.5556	12.04	-0.51	35890.000	2.0	1082397.000	3.0	9.9213	12.04	-2.61	35890.000	2.0	1043818.000	1.0
9.5574	12.05	-1.72	0.000	1.5	1046307.000	2.5	9.9213	12.04	-3.48	35890.000	2.0	1043818.000	2.0
9.5579	12.04	-4.34	35890.000	2.0	1082146.000	1.0	9.9213	12.04	-0.92	35890.000	2.0	1043818.000	3.0
9.5587	12.04	-1.67	0.000	2.0	1046167.000	3.0	9.9276	13.04	-1.31	0.000	1.5	1007290.000	1.5
9.5592	12.04	-0.67	35890.000	2.0	1082003.000	2.0	9.9276	13.04	-1.99	0.000	1.5	1007290.000	0.5
9.5603	12.04	-3.86	35890.000	2.0	1081883.000	2.0	9.9290	13.04	-0.36	0.000	1.5	1007150.000	2.5
9.5606	13.05	-2.81	88210.000	0.0	1134170.000	1.0	9.9290	13.04	-1.29	0.000	1.5	1007150.000	1.5
9.5626	12.04	-3.39	0.000	2.0	1045743.000	1.0	9.9325	12.04	-1.70	35890.000	2.0	1042681.000	2.0
9.5637	12.05	-2.84	0.000	1.5	1045620.000	0.5	9.9345	12.04	-3.00	35890.000	2.0	1042481.000	1.0
9.5666	12.04	-1.87	0.000	2.0	1045308.000	2.0	9.9387	12.05	-0.93	56340.000	1.5	1062506.000	2.5
9.5675	12.05	-1.93	0.000	1.5	1045205.000	1.5	9.9389	12.05	-0.29	56361.000	2.5	1062506.000	2.5
9.5675	12.05	-1.84	0.000	1.5	1045205.000	2.5	9.9443	12.05	-0.53	56340.000	1.5	1061943.000	1.5
9.5776	11.05	-0.27	103628.000	2.0	1147735.000	2.0	9.9445	12.05	-1.38	56361.000	2.5	1061943.000	1.5
9.5778	11.05	-0.47	103628.000	2.0	1147708.000	3.0	9.9459	14.05	-0.55	0.000	1.5	1005440.000	1.5
9.5789	12.04	-2.60	1780.000	1.0	1045743.000	1.0	9.9496	11.05	-1.22	0.000	0.0	1005068.000	1.0
9.5802	12.04	-1.75	0.000	2.0	1043818.000	1.0	9.9501	11.05	-1.12	698.000	1.0	1005713.000	2.0
9.5802	12.04	-1.14	0.000	2.0	1043818.000	2.0	9.9513	12.04	-4.49	77254.000	0.0	1082146.000	1.0
9.5802	12.04	-0.87	0.000	2.0	1043818.000	3.0	9.9565	11.05	-1.34	698.000	1.0	1005068.000	1.0
9.5803	12.05	-6.85	56340.000	1.5	1100146.000	0.5	9.9597	14.05	-0.99	5097.000	0.5	1009140.000	0.5
9.5803	12.05	-6.55	56340.000	1.5	1100146.000	1.5	9.9616	11.05	-0.65	1858.000	2.0	1005713.000	2.0
9.5803	12.05	-6.37	56340.000	1.5	1100146.000	2.5	9.9617	13.04	-0.57	3442.000	0.5	1007290.000	1.5
9.5828	12.04	-5.78	35890.000	2.0	1079431.000	1.0	9.9617	13.04	-1.69	3442.000	0.5	1007290.000	0.5
9.5828	12.04	-4.61	35890.000	2.0	1079431.000	2.0	9.9631	13.04	-1.99	3442.000	0.5	1007150.000	1.5
9.5828	12.04	-3.86	35890.000	2.0	1079431.000	3.0	9.9680	11.05	-1.12	1858.000	2.0	1005068.000	1.0
9.5829	12.04	-1.31	1780.000	1.0	1045308.000	2.0	9.9783	12.04	-4.54	77254.000	0.0	1079431.000	1.0
9.5833	13.04	-2.37	0.000	1.5	1043480.000	1.5	9.9821	12.05	-0.12	85022.000	1.5	1086813.000	2.5
9.5838	13.04	-1.42	0.000	1.5	1043430.000	2.5	9.9845	12.05	-0.44	84900.000	0.5	1086456.000	1.5
9.5857	12.04	-1.63	2519.000	0.0	1045743.000	1.0	9.9857	12.05	-1.24	85022.000	1.5	1086456.000	1.5
9.5902	12.05	-3.29	56340.000	1.5	1099073.000	0.5	9.9966	14.05	-1.34	5097.000	0.5	1005440.000	1.5
9.5907	12.04	-2.16	0.000	2.0	1042681.000	2.0	10.0149	12.05	-3.31	85022.000	1.5	1083533.000	2.5
9.5925	12.04	-2.61	0.000	2.0	1042481.000	1.0	10.0250	4.02	-0.26	0.000	0.0	997506.234	0.0
9.5948	11.05	-0.07	35518.000	2.0	1077752.000	2.0	10.0471	11.05	-0.54	698.000	1.0	996011.000	2.0
9.5966	12.04	-0.98	1780.000	1.0	1043818.000	1.0	10.0515	11.05	-0.28	1858.000	2.0	996734.000	3.0
9.5966	12.04	-1.37	1780.000	1.0	1043818.000	2.0	10.0588	11.05	-1.02	1858.000	2.0	996011.000	2.0
9.6015	14.05	-1.90	0.000	1.5	1041500.000	1.5	10.0640	14.05	-2.30	0.000	1.5	993640.000	1.5
9.6020	14.05	-0.70	0.000	1.5	1041450.000	2.5	10.0802	12.05	-4.39	56340.000	1.5	1048383.000	0.5
9.6034	12.04	-2.45	2519.000	0.0	1043818.000	1.0	10.0815	12.05	-0.34	56361.000	2.5	1048274.000	3.5
9.6071	12.04	-2.66	1780.000	1.0	1042681.000	2.0	10.0842	12.05	-5.48	56340.000	1.5	1047987.000	1.5
9.6089	12.04	-2.37	1780.000	1.0	1042481.000	1.0	10.0844	12.05	-3.64	56361.000	2.5	1047987.000	1.5
9.6094	11.05	-4.95	103628.000	2.0	1144276.000	1.0	10.0883	13.05	-3.68	88210.000	0.0	1079460.000	1.0
9.6101	12.05	-3.46	0.000	1.5	1040567.000	0.5	10.0912	12.05	-4.57	56340.000	1.5	1047307.000	2.5
9.6150	13.04	-1.67	3442.000	0.5	1043480.000	1.5	10.0914	12.05	-3.90	56361.000	2.5	1047307.000	2.5
9.6157	12.04	-0.88	2519.000	0.0	1042481.000	1.0	10.0920	12.04	-5.56	35890.000	2.0	1026774.000	1.0
9.6158	12.05	-2.90	0.000	1.5	1039950.000	1.5	10.0920	12.04	-4.38	35890.000	2.0	1026774.000	2.0
9.6165	12.05	-0.15	84900										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
10.2778	11.05	-2.20	241341.000	2.0	1214311.000	2.0	10.8017	11.04	-0.31	48337.000	2.5	974117.000	3.5
10.3004	11.05	-1.39	0.000	0.0	970835.000	1.0	10.8020	11.04	-0.38	48362.000	1.5	974117.000	2.5
10.3072	11.05	-3.84	35518.000	2.0	1005713.000	2.0	10.8058	13.04	-0.27	0.000	1.5	925430.000	1.5
10.3078	11.05	-0.92	698.000	1.0	970835.000	1.0	10.8112	13.04	-0.20	3442.000	0.5	928410.000	1.5
10.3141	11.05	-4.31	35518.000	2.0	1005068.000	1.0	10.8315	13.04	-1.43	0.000	1.5	923230.000	2.5
10.3202	11.05	-0.69	1858.000	2.0	970835.000	1.0	10.8385	13.04	-1.56	0.000	1.5	922640.000	2.5
10.3254	12.04	-0.39	77254.000	0.0	1045743.000	1.0	10.8406	13.04	-0.77	3442.000	0.5	925900.000	0.5
10.3459	12.04	-1.88	77254.000	0.0	1043818.000	1.0	10.8446	13.04	-2.40	0.000	1.5	922120.000	1.5
10.3603	12.04	-1.95	77254.000	0.0	1042481.000	1.0	10.8461	13.04	-0.43	3442.000	0.5	925430.000	1.5
10.3667	11.05	-4.36	103628.000	2.0	1068258.000	3.0	10.8526	13.04	-2.95	0.000	1.5	921440.000	0.5
10.3790	12.05	-5.74	84900.000	0.5	1048383.000	0.5	10.8555	11.05	-2.13	204131.000	3.0	1125323.000	2.0
10.3803	12.05	-6.24	85022.000	1.5	1048383.000	0.5	10.8555	11.05	-0.58	204131.000	3.0	1125323.000	3.0
10.3807	13.04	-0.92	0.000	1.5	963330.000	1.5	10.8555	11.05	-0.48	204131.000	3.0	1125323.000	4.0
10.3833	12.05	-4.05	84900.000	0.5	1047987.000	1.5	10.8566	11.05	-4.36	204222.000	2.0	1125323.000	2.0
10.3846	12.05	-5.90	85022.000	1.5	1047987.000	1.5	10.8566	11.05	-3.46	204222.000	2.0	1125323.000	3.0
10.3881	13.04	-0.09	0.000	1.5	962640.000	2.5	10.8570	11.05	-4.84	204260.000	1.0	1125323.000	2.0
10.3904	12.04	-0.25	0.000	2.0	962427.000	3.0	10.8615	13.04	-2.89	0.000	1.5	920680.000	1.5
10.3907	12.04	-1.00	0.000	2.0	962395.000	2.0	10.8695	11.05	-1.86	698.000	1.0	920706.000	2.0
10.3909	12.04	-2.17	0.000	2.0	962378.000	1.0	10.8707	13.04	-3.44	0.000	1.5	919900.000	2.5
10.3919	12.05	-3.19	85022.000	1.5	1047307.000	2.5	10.8832	11.05	-6.10	1858.000	2.0	920706.000	2.0
10.3990	13.04	-0.10	0.000	1.5	961630.000	1.5	10.8840	11.05	-4.20	698.000	1.0	919476.000	2.0
10.4027	12.05	-3.74	85022.000	1.5	1046307.000	2.5	10.8852	13.04	-3.97	3442.000	0.5	922120.000	1.5
10.4035	11.05	-3.47	35518.000	2.0	996734.000	3.0	10.8933	13.04	-3.41	3442.000	0.5	921440.000	0.5
10.4073	13.04	-0.40	0.000	1.5	960860.000	0.5	10.8978	11.05	-2.29	1858.000	2.0	919476.000	2.0
10.4089	12.05	-2.32	84900.000	0.5	1045620.000	0.5	10.9023	13.04	-3.76	3442.000	0.5	920680.000	1.5
10.4100	12.04	-0.57	1780.000	1.0	962395.000	2.0	10.9785	11.05	-1.41	35518.000	2.0	946392.000	1.0
10.4102	12.05	-2.64	85022.000	1.5	1045620.000	0.5	10.9867	12.05	-4.09	0.000	1.5	910191.000	1.5
10.4102	12.04	-1.04	1780.000	1.0	962378.000	1.0	10.9914	11.05	-3.85	241341.000	1.0	1151140.000	1.0
10.4113	11.05	-4.21	35518.000	2.0	996011.000	2.0	10.9915	11.05	-0.52	35518.000	2.0	945309.000	3.0
10.4121	13.04	-0.84	0.000	1.5	960420.000	0.5	11.0080	11.05	-1.82	350179.000	1.0	1258613.000	2.0
10.4134	12.05	-3.04	84900.000	0.5	1045205.000	1.5	11.0080	11.05	-1.38	350179.000	1.0	1258613.000	1.0
10.4147	12.05	-2.50	85022.000	1.5	1045205.000	1.5	11.0096	12.05	-4.58	0.000	1.5	908297.000	0.5
10.4147	12.05	-4.56	85022.000	1.5	1045205.000	2.5	11.0327	11.05	-3.95	241341.000	1.0	1147735.000	2.0
10.4179	13.04	-0.34	3442.000	0.5	963330.000	1.5	11.0527	12.04	-1.24	0.000	2.0	904753.000	3.0
10.4182	12.04	-0.92	2519.000	0.0	962378.000	1.0	11.0719	11.05	-0.47	350179.000	1.0	1253369.000	2.0
10.4364	13.04	-0.71	3442.000	0.5	961630.000	1.5	11.0750	11.05	-1.06	241341.000	0.0	1144276.000	1.0
10.4448	13.04	-0.79	3442.000	0.5	960860.000	0.5	11.0750	11.05	-4.14	241341.000	2.0	1144276.000	1.0
10.4496	13.04	-0.41	3442.000	0.5	960420.000	0.5	11.0781	12.04	-1.41	0.000	2.0	902682.000	1.0
10.4639	12.05	-0.97	84900.000	0.5	1040567.000	0.5	11.0810	12.04	-2.77	0.000	2.0	902449.000	1.0
10.4652	12.05	-1.29	85022.000	1.5	1040567.000	0.5	11.0811	12.04	-1.27	0.000	2.0	902441.000	2.0
10.4707	12.05	-1.25	84900.000	0.5	1039950.000	1.5	11.0814	11.04	-1.48	48337.000	2.5	950751.000	2.5
10.4720	12.05	-0.61	85022.000	1.5	1039950.000	1.5	11.0817	11.04	-0.34	48362.000	1.5	950751.000	2.5
10.5180	11.04	-0.77	0.000	1.5	950751.000	2.5	11.0859	12.04	-0.51	0.000	2.0	902047.000	3.0
10.5316	12.04	-0.31	77254.000	0.0	1026774.000	1.0	11.0878	11.04	-0.17	48337.000	2.5	950229.000	3.5
10.5610	11.05	-0.11	204260.000	1.0	1151140.000	1.0	11.0915	11.04	-1.21	73221.000	0.5	974815.000	1.5
10.5664	11.05	-2.43	0.000	0.0	946392.000	1.0	11.0919	11.04	-2.04	73260.000	1.5	974815.000	1.5
10.5742	11.05	-3.32	698.000	1.0	946392.000	1.0	11.0919	11.04	-0.87	73260.000	1.5	974815.000	2.5
10.5809	11.04	-1.48	0.000	1.5	945101.000	2.5	11.0937	12.04	-0.86	0.000	2.0	901414.000	2.0
10.5844	11.04	-1.57	0.000	1.5	944789.000	1.5	11.1000	12.04	-0.44	1780.000	1.0	902682.000	1.0
10.5872	11.05	-3.64	1858.000	2.0	946392.000	1.0	11.1005	11.04	-3.07	73260.000	1.5	974117.000	2.5
10.5957	11.05	-4.80	103628.000	2.0	1047408.000	2.0	11.1029	12.04	-2.03	1780.000	1.0	902449.000	1.0
10.5987	11.05	-4.43	204222.000	2.0	1147735.000	2.0	11.1030	12.04	-0.78	1780.000	1.0	902441.000	2.0
10.5990	11.05	-4.23	204222.000	2.0	1147708.000	3.0	11.1091	12.04	-2.43	2519.000	0.0	902682.000	1.0
10.5991	11.05	-0.20	204260.000	1.0	1147735.000	2.0	11.1120	12.04	-0.98	2519.000	0.0	902449.000	1.0
10.5994	11.05	-3.19	1858.000	2.0	945309.000	3.0	11.1156	12.04	-0.94	1780.000	1.0	901414.000	2.0
10.6253	11.04	-1.27	0.000	1.5	941147.000	2.5	11.1199	12.04	-1.84	0.000	2.0	899291.000	2.0
10.6278	11.04	-0.58	0.000	1.5	940929.000	1.5	11.1242	11.05	-5.02	35518.000	2.0	934463.000	1.0
10.6302	11.04	-0.71	0.000	1.5	940716.000	2.5	11.1247	12.04	-2.58	0.000	2.0	898904.000	1.0
10.6302	12.04	-3.60	77254.000	0.0	1017972.000	1.0	11.1307	12.05	-1.27	84900.000	0.5	983318.000	0.5
10.6377	11.05	-0.34	204222.000	2.0	1144276.000	1.0	11.1309	11.05	-2.24	35518.000	2.0	933915.000	2.0
10.6399	11.04	-1.88	0.000	1.5	939858.000	0.5	11.1322	12.05	-1.00	85022.000	1.5	983318.000	0.5
10.6490	11.04	-1.06	0.000	1.5	939055.000	1.5	11.1369	11.04	-7.25	0.000	1.5	897914.000	1.5
10.6490	11.04	-0.58	0.000	1.5	939055.000	2.5	11.1419	12.04	-1.00	1780.000	1.0	899291.000	2.0
10.6528	12.05	-5.16	0.000	1.5	938723.000	1.5	11.1467	12.04	-1.76	1780.000	1.0	898904.000	1.0
10.6528	12.05	-4.22	0.000	1.5	938723.000	2.5	11.1496	12.04	-0.85	1780.000	1.0	898673.000	0.0
10.6560	11.04	-1.60	0.000	1.5	938436.000	1.5	11.1512	11.04	-0.84	48337.000	2.5	945101.000	2.5
10.6579	12.04	-2.34	77254.000	0.0	1015523.000	1.0	11.1515	11.04	-1.97	48362.000	1.5	945101.000	2.5
10.6599	11.05	-0.17	312175.000	2.0	1250272.000	3.0	11.1519	11.04	-8.02	0.000	1.5	896711.000	0.5
10.6607	11.05	-1.11	320589.000	1.0	1258613.000	1.0	11.1551	11.04	-1.80	48337.000	2.5	944789.000	1.5
10.6607	11.05	-0.64	320589.000	1.0	1258613.000	2.0	11.1552	12.05	-0.79	0.000	1.5	896443.000	2.5
10.6766	12.04	-2.06	77254.000	0.0	1013878.000	1.0	11.1554	11.04	-1.46	48362.000	1.5	944789.000	1.5
10.6916	11.05	-3.89	35518.000	2.0	970835.000	1.0	11.1557	11.05	-4.70	74434.000	0.0	970835.000	1.0
10.7013	11.05	-0.94	0.000	0.0	934463.000	1.0	11.1559	12.04	-0.34	2519.000	0.0	898904.000	1.0
10.7061	11.05	-0.68	698.000	1.0	934745.000	0.0	11.1733	11.05	-2.97	35518.000	2.0	930510.000	3.0
10.7093	11.05	-0.61	698.000	1.0	934463.000	1.0	11.1746	12.05	-0.96	0.000	1.5	894887.000	1.5
10.7156	11.05	-1.20	698.000	1.0	933915.000	2.0	11.1797	11.05	-3.15	35518.000	2.0	929999.000	2.0
10.7206	11.05	-4.49	320589.000	1.0	1253369.000	2.0	11.1825	11.05	-3.52	35518.000	2.0	929774.000	1.0
10.7227	11.05	-0.51	1858.000	2.0	934463.000	1.0	11.1864	12.05	-1.25	0.000	1.5	893943.000	0.5
10.7290	11.05	-0.01	1858.000	2.0	933915.000	2.0	11.1879	11.04	-1.51	0.000	1.5	893822.000	2.5
10.7454													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
11.3282	12.04	-3.54	0.000	2.0	882752.000	3.0	11.8694	10.04	-1.16	414.000	1.0	842914.000	2.0
11.3329	12.05	-.75	56340.000	1.5	938723.000	1.5	11.8702	11.05	-4.83	204222.000	2.0	1046668.000	1.0
11.3329	12.05	-1.61	56340.000	1.5	938723.000	2.5	11.8748	11.05	-4.61	204222.000	2.0	1046340.000	2.0
11.3332	12.05	-1.84	56361.000	2.5	938723.000	1.5	11.8762	10.04	-.77	0.000	0.0	842020.000	1.0
11.3332	12.05	-.56	56361.000	2.5	938723.000	2.5	11.8793	10.04	-1.16	1112.000	2.0	842914.000	1.0
11.3574	11.04	-2.42	48337.000	2.5	928820.000	1.5	11.8793	10.04	-.68	1112.000	2.0	842914.000	2.0
11.3574	11.04	-1.27	48337.000	2.5	928820.000	2.5	11.8808	11.05	-4.46	204222.000	2.0	1045913.000	3.0
11.3577	11.04	-1.46	48362.000	1.5	928820.000	1.5	11.8810	12.04	.16	35890.000	2.0	877570.000	2.0
11.3577	11.04	-2.38	48362.000	1.5	928820.000	2.5	11.8820	10.04	-.42	414.000	1.0	842020.000	2.0
11.3703	12.04	-.20	0.000	2.0	879485.000	1.0	11.8820	10.04	-.90	414.000	1.0	842020.000	1.0
11.3933	12.04	-1.50	1780.000	1.0	879485.000	1.0	11.8856	12.04	-.85	35890.000	2.0	877244.000	1.0
11.3951	12.04	-1.88	0.000	2.0	877570.000	2.0	11.8919	10.04	-2.08	1112.000	2.0	842020.000	1.0
11.3961	11.04	-3.77	73260.000	1.5	950751.000	2.5	11.8919	10.04	-.90	1112.000	2.0	842020.000	2.0
11.3993	12.04	-.82	0.000	2.0	877244.000	1.0	11.8919	10.04	-.15	1112.000	2.0	842020.000	3.0
11.4030	12.04	-2.33	2519.000	0.0	879485.000	1.0	11.8924	12.04	-2.20	35890.000	2.0	876762.000	2.0
11.4056	12.04	-.05	0.000	2.0	876762.000	2.0	11.8968	13.04	-1.49	3442.000	.5	840560.000	1.0
11.4183	12.04	-1.25	1780.000	1.0	877570.000	2.0	11.8986	13.04	-1.49	3442.000	.5	843880.000	.5
11.4199	12.04	-.73	1780.000	1.0	877444.000	0.0	11.9033	12.05	-4.71	56340.000	1.5	896443.000	2.5
11.4225	12.04	-.61	1780.000	1.0	877244.000	1.0	11.9036	12.05	-3.58	56361.000	2.5	896443.000	2.5
11.4288	12.04	-1.30	1780.000	1.0	876762.000	2.0	11.9254	12.05	-3.90	56340.000	1.5	894887.000	1.5
11.4322	12.04	-2.46	2519.000	0.0	877244.000	1.0	11.9257	12.05	-3.40	56361.000	2.5	894887.000	1.5
11.4329	13.03	-2.34	0.000	0.0	874669.000	1.0	11.9262	11.04	-2.82	0.000	1.5	838490.000	1.5
11.4495	12.04	-1.16	0.000	2.0	873404.000	1.0	11.9304	11.04	-3.15	0.000	1.5	838198.000	.5
11.4684	11.05	-.08	74434.000	0.0	946392.000	1.0	11.9388	12.05	-3.81	56340.000	1.5	893943.000	.5
11.4700	11.04	-.53	73260.000	1.5	945101.000	2.5	11.9401	12.04	-1.09	35890.000	2.0	873404.000	1.0
11.4728	12.04	-.54	1780.000	1.0	873404.000	1.0	11.9401	10.04	-4.25	1112.000	2.0	838623.000	2.0
11.4736	11.04	-.96	73221.000	.5	944789.000	1.5	11.9713	12.04	-1.01	35890.000	2.0	871221.000	1.0
11.4741	11.04	-.97	73260.000	1.5	944789.000	1.5	11.9713	12.04	-.98	35890.000	2.0	871221.000	2.0
11.4759	13.03	-2.04	0.000	0.0	871391.000	1.0	11.9713	12.04	-2.97	35890.000	2.0	871221.000	3.0
11.4781	12.04	-1.26	0.000	2.0	871221.000	1.0	12.0561	11.04	-2.40	0.000	1.5	829459.000	2.5
11.4781	12.04	-.34	0.000	2.0	871221.000	2.0	12.0627	11.05	-5.00	204222.000	2.0	1033221.000	2.0
11.4781	12.04	-.15	0.000	2.0	871221.000	3.0	12.0633	11.05	-.72	204260.000	1.0	1033221.000	2.0
11.4826	12.04	-.72	2519.000	0.0	873404.000	1.0	12.0931	11.05	-1.19	241341.000	1.0	1068258.000	3.0
11.5016	12.04	-2.59	1780.000	1.0	871221.000	1.0	12.0973	11.05	-4.91	241341.000	2.0	1067971.000	2.0
11.5016	12.04	-.22	1780.000	1.0	871221.000	2.0	12.0973	11.05	-.60	241341.000	2.0	1067971.000	2.0
11.5093	12.04	-.29	35890.000	2.0	904753.000	3.0	12.1004	11.05	-.39	241341.000	0.0	1067760.000	1.0
11.5114	12.04	-.70	2519.000	0.0	871221.000	1.0	12.1004	11.05	-1.26	241341.000	2.0	1067760.000	1.0
11.5222	11.04	-1.58	73260.000	1.5	941147.000	2.5	12.1149	12.04	-1.23	77254.000	0.0	902682.000	1.0
11.5246	11.04	-2.68	73221.000	.5	940929.000	1.5	12.1169	12.05	-1.49	84900.000	.5	910191.000	1.5
11.5251	11.04	-2.38	73260.000	1.5	940929.000	1.5	12.1183	12.04	.13	77254.000	0.0	902449.000	1.0
11.5268	11.04	-4.67	0.000	1.5	867547.000	1.5	12.1187	12.05	-.83	85022.000	1.5	910191.000	1.5
11.5268	11.04	-3.24	0.000	1.5	867547.000	2.5	12.1257	11.04	-2.26	73221.000	.5	897914.000	1.5
11.5280	11.04	-2.17	73260.000	1.5	940716.000	2.5	12.1263	11.04	-1.56	73260.000	1.5	897914.000	1.5
11.5368	12.04	-1.80	35890.000	2.0	902682.000	1.0	12.1318	10.05	-.12	100260.000	.5	924538.000	.5
11.5389	11.04	-1.88	73221.000	.5	939858.000	.5	12.1318	10.05	-.12	100260.000	.5	924538.000	1.5
11.5394	11.04	-2.21	73260.000	1.5	939858.000	1.5	12.1383	10.05	-.82	100701.000	1.5	924538.000	.5
11.5399	12.04	-1.36	35890.000	2.0	902447.000	1.0	12.1383	10.05	-.01	100701.000	1.5	924538.000	1.5
11.5400	12.04	-.48	35890.000	2.0	902447.000	2.0	12.1383	10.05	.28	100701.000	1.5	924538.000	2.5
11.5453	12.04	-.19	35890.000	2.0	902047.000	3.0	12.1405	11.05	-.62	320589.000	1.0	1144276.000	1.0
11.5496	11.04	-1.18	73221.000	.5	939055.000	1.5	12.1434	11.04	-1.94	73221.000	.5	896711.000	.5
11.5501	11.04	-2.81	73260.000	1.5	939055.000	1.5	12.1440	11.04	-2.27	73260.000	1.5	896711.000	.5
11.5501	11.04	-1.42	73260.000	1.5	939055.000	2.5	12.1448	12.05	-1.24	84900.000	.5	908297.000	.5
11.5537	12.04	-.45	35890.000	2.0	901414.000	2.0	12.1466	12.05	-1.59	85022.000	1.5	908297.000	.5
11.5578	11.04	-1.40	73221.000	.5	938436.000	1.5	12.1478	10.05	-1.04	101347.000	2.5	924538.000	1.5
11.5583	11.04	-1.26	73260.000	1.5	938436.000	1.5	12.1478	10.05	-.09	101347.000	2.5	924538.000	2.5
11.5723	11.05	-3.44	350179.000	1.0	1214311.000	2.0	12.1478	10.05	.56	101347.000	2.5	924538.000	3.5
11.5724	11.05	-.32	204131.000	3.0	1068258.000	3.0	12.1644	12.04	.23	0.000	2.0	822071.000	3.0
11.5736	11.05	.25	204222.000	2.0	1068258.000	3.0	12.1658	12.04	-.51	0.000	2.0	821977.000	2.0
11.5762	11.05	-1.22	204131.000	3.0	1067971.000	2.0	12.1660	12.04	-1.68	0.000	2.0	821963.000	1.0
11.5774	11.05	-.49	204222.000	2.0	1067971.000	2.0	12.1706	12.04	-1.40	77254.000	0.0	898904.000	1.0
11.5803	11.05	-1.65	204222.000	2.0	1067760.000	1.0	12.1868	11.04	-6.28	73260.000	1.5	893822.000	2.5
11.5821	12.04	-.85	35890.000	2.0	899291.000	2.0	12.1922	12.04	-.11	1780.000	1.0	821977.000	2.0
11.5873	12.04	-2.37	35890.000	2.0	898904.000	1.0	12.1924	12.04	-.57	1780.000	1.0	821963.000	1.0
11.6275	11.05	-2.79	74434.000	0.0	934463.000	1.0	12.2001	11.04	-6.53	73221.000	.5	892885.000	1.5
11.6877	11.04	-1.94	73221.000	.5	928820.000	1.5	12.2007	11.04	-6.42	73221.000	1.5	892885.000	1.5
11.6883	11.04	-2.57	73260.000	1.5	928820.000	1.5	12.2034	12.04	-.45	2519.000	0.0	821963.000	1.0
11.6883	11.04	-1.69	73260.000	1.5	928820.000	2.5	12.2069	11.04	-2.17	48337.000	2.5	867547.000	1.5
11.6913	11.05	-2.64	74434.000	0.0	929774.000	1.0	12.2069	11.04	-1.00	48337.000	2.5	867547.000	2.5
11.6959	9.04	-1.62	86044.000	1.5	941043.000	2.5	12.2073	11.04	-1.07	48362.000	1.5	867547.000	1.5
11.7009	9.04	-1.25	86408.000	2.5	941043.000	2.5	12.2073	11.04	-2.32	48362.000	1.5	867547.000	2.5
11.7059	9.04	-.72	86408.000	2.5	940678.000	3.5	12.2097	11.04	-6.66	73221.000	.5	892244.000	.5
11.7116	12.05	-1.81	56340.000	1.5	910191.000	1.5	12.2103	11.04	-8.95	73260.000	1.5	892244.000	.5
11.7119	12.05	-.62	56361.000	2.5	910191.000	1.5	12.2309	11.05	-1.76	0.000	0.0	817598.000	1.0
11.7120	12.05	-1.24	84900.000	.5	938723.000	1.5	12.2412	10.04	-.07	30293.000	2.0	847207.000	3.0
11.7137	12.05	-1.67	85022.000	1.5	938723.000	1.5	12.2414	11.05	-1.85	698.000	1.0	817598.000	1.0
11.7137	12.05	-.98	85022.000	1.5	938723.000	2.5	12.2488	10.05	0.00	0.000	.5	816405.000	1.5
11.7377	12.05	-.85	56340.000	1.5	908297.000	.5	12.2588	11.05	-1.69	1858.000	2.0	817598.000	1.0
11.7491	11.05	.50	204131.000	3.0	1055260.000	4.0	12.2685	10.05	.26	1310.000	1.5	816405.000	2.5
11.7596	11.05	-.56	204131.000	3.0	1054497.000	3.0	12.2685	10.05	-.70	1310.000	1.5	816405.000	1.5
11.7609	11.05	-3.43	204222.000	2.0	1054497.								

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
12.3621	12.05	-4.06	85022.000	1.5	893943.000	.5
12.3661	9.04	-1.01	0.000	.5	808663.000	1.5
12.3712	10.04	-.77	30293.000	2.0	838623.000	2.0
12.3714	12.03	-1.89	2227.000	.5	810543.000	.5
12.3714	12.03	-1.76	2227.000	.5	810543.000	1.5
12.3748	11.05	-1.17	698.000	1.0	808795.000	2.0
12.3773	9.04	-.75	744.500	1.5	808677.000	2.5
12.3775	9.04	-1.71	744.500	1.5	808663.000	1.5
12.3866	11.05	-1.41	0.000	0.0	807324.000	1.0
12.3925	11.05	-.69	1858.000	2.0	808795.000	2.0
12.3952	11.05	-.79	241341.000	0.0	1048104.000	1.0
12.3952	11.05	-.70	241341.000	1.0	1048104.000	1.0
12.3952	11.05	-1.69	241341.000	2.0	1048104.000	1.0
12.3973	11.05	-1.55	698.000	1.0	807324.000	1.0
12.4034	13.03	-1.92	0.000	0.0	806231.000	1.0
12.4059	11.05	-.48	241341.000	1.0	1047408.000	2.0
12.4059	11.05	-2.03	241341.000	2.0	1047408.000	2.0
12.4086	9.04	-1.64	86044.000	1.5	891937.000	2.5
12.4142	9.04	-1.27	86408.000	2.5	891937.000	2.5
12.4152	11.05	-1.30	1858.000	2.0	807324.000	1.0
12.4180	10.04	-5.45	0.000	0.0	805284.000	1.0
12.4265	11.05	-3.95	320589.000	1.0	1125323.000	2.0
12.4352	10.04	-4.75	1112.000	2.0	805284.000	1.0
12.4414	12.03	-.93	0.000	1.5	803769.000	.5
12.4529	12.03	-1.53	0.000	1.5	803023.000	1.5
12.4529	12.03	-.77	0.000	1.5	803023.000	2.5
12.4543	13.03	-1.62	0.000	0.0	802936.000	1.0
12.4646	12.03	-1.53	0.000	1.5	802272.000	.5
12.4646	12.03	-.70	0.000	1.5	802272.000	1.5
12.4652	12.04	-2.86	77254.000	0.0	879485.000	1.0
12.4760	12.03	-1.41	2227.000	.5	803769.000	.5
12.4876	12.03	-1.03	2227.000	.5	803023.000	1.5
12.4993	12.03	-.99	2227.000	.5	802272.000	.5
12.4993	12.03	-1.29	2227.000	.5	802272.000	1.5
12.5002	12.04	-2.61	77254.000	0.0	877244.000	1.0
12.5129	11.04	-8.51	48362.000	1.5	847539.000	.5
12.5129	11.04	-8.20	48362.000	1.5	847539.000	1.5
12.5129	11.04	-8.03	48362.000	1.5	847539.000	2.5
12.5178	11.04	-.71	0.000	1.5	798862.000	.5
12.5216	11.04	-.08	0.000	1.5	798620.000	1.5
12.5286	11.04	-.21	0.000	1.5	798174.000	2.5
12.5305	11.04	-2.40	0.000	1.5	798055.000	2.5
12.5428	11.04	-.39	0.000	1.5	797270.000	.5
12.5461	11.04	-.43	0.000	1.5	797060.000	1.5
12.5461	11.04	.12	0.000	1.5	797060.000	2.5
12.5461	12.03	-2.02	0.000	1.5	797062.000	.5
12.5521	13.04	-1.81	0.000	1.5	796680.000	1.5
12.5526	13.04	-.68	0.000	1.5	796650.000	2.5
12.5604	12.04	-1.51	77254.000	0.0	873404.000	1.0
12.5742	10.04	-1.87	0.000	0.0	795279.000	1.0
12.5808	10.04	-1.99	414.000	1.0	795279.000	1.0
12.5808	10.04	-1.77	414.000	1.0	795279.000	2.0
12.5808	10.04	-1.87	414.000	1.0	795279.000	0.0
12.5812	12.03	-2.29	2227.000	.5	797062.000	.5
12.5870	11.04	-1.80	48362.000	1.5	842834.000	.5
12.5893	11.04	-.24	73221.000	.5	867547.000	1.5
12.5899	11.04	-.89	73260.000	1.5	867547.000	2.5
12.5899	11.04	-.02	73260.000	1.5	867547.000	1.5
12.5918	10.04	-1.29	1112.000	2.0	795279.000	2.0
12.5918	10.04	-1.77	1112.000	2.0	795279.000	1.0
12.5929	11.05	-4.67	350179.000	1.0	1144276.000	1.0
12.5950	12.04	-1.26	77254.000	0.0	871221.000	1.0
12.6006	11.04	-1.31	0.000	1.5	793616.000	.5
12.6066	13.04	-.90	3442.000	.5	796680.000	1.5
12.6087	11.04	-1.01	0.000	1.5	793104.000	1.5
12.6282	11.05	-4.47	241341.000	1.0	1033221.000	2.0
12.6558	11.04	-.72	48337.000	2.5	838490.000	1.5
12.6562	11.04	-.97	48362.000	1.5	838490.000	1.5
12.6609	11.04	-.87	48362.000	1.5	838198.000	.5
12.7197	12.04	-2.40	35890.000	2.0	822071.000	3.0
12.7212	12.04	-3.17	35890.000	2.0	821977.000	2.0
12.7215	12.04	-4.91	35890.000	2.0	821963.000	1.0
12.7565	11.05	-.27	350179.000	1.0	1134094.000	1.0
12.7565	11.05	-.77	350179.000	1.0	1134094.000	2.0
12.7864	11.05	-.74	35518.000	2.0	817598.000	2.0
12.8021	11.04	-.40	48337.000	2.5	829459.000	1.5
12.8025	11.04	.06	48362.000	1.5	829459.000	2.5
12.8051	11.04	.54	48337.000	2.5	829276.000	3.5
12.8131	11.05	-1.13	350179.000	1.0	1130631.000	0.0
12.8131	11.05	-.98	350179.000	1.0	1130631.000	1.0
12.8131	11.05	-2.35	350179.000	1.0	1130631.000	2.0
12.8367	10.04	-4.87	63899.000	0.0	842914.000	1.0
12.8515	10.04	-4.39	63899.000	0.0	842020.000	1.0
12.9008	11.05	.07	350179.000	1.0	1125323.000	2.0
12.9034	10.04	-1.26	30293.000	2.0	805284.000	1.0
12.9043	11.05	-1.39	241341.000	0.0	1016274.000	1.0
12.9043	11.05	-1.35	241341.000	2.0	1016274.000	1.0
12.9043	11.05	-.69	241341.000	2.0	1016274.000	2.0
12.9043	11.05	-1.31	241341.000	2.0	1016274.000	3.0
12.9152	11.04	-5.16	73260.000	1.5	847539.000	1.5
12.9152	11.04	-.48	73260.000	1.5	847539.000	2.5
12.9152	11.04	-5.46	73260.000	1.5	847539.000	.5
12.9320	11.05	-3.89	35518.000	2.0	808795.000	2.0
12.9566	11.05	-1.07	35518.000	2.0	807324.000	1.0
12.9729	13.03	-.06	0.000	0.0	770836.100	1.0
12.9736	12.03	-2.01	0.000	1.5	770799.000	1.5
12.9786	8.05	-.62	96375.000	0.0	866874.129	0.0
12.9861	12.03	-1.28	0.000	1.5	770056.000	1.5
12.9870	8.05	-1.32	96908.000	0.0	866908.770	0.0
12.9872	8.05	-.36	96908.000	0.0	866896.912	0.0
12.9935	11.04	-.68	73221.000	.5	842834.000	.5
12.9942	11.04	-.92	73260.000	1.5	842834.000	.5
12.9972	12.03	-1.64	0.000	1.5	769397.000	.5
13.0085	12.03	-.97	0.000	1.5	768728.000	2.5
13.0111	12.03	-.77	2227.000	.5	770799.000	1.5
13.0237	12.03	-1.49	2227.000	.5	770056.000	1.5
13.0248	12.03	-.84	0.000	1.5	767769.000	1.5
13.0301	12.03	-.50	0.000	1.5	767454.000	2.5
13.0349	12.03	-1.39	2227.000	.5	769397.000	.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
13.0371	13.03	-.73	0.000	0.0	767040.600	1.0
13.0414	13.04	-1.23	0.000	1.5	766790.000	.5
13.0626	12.03	-1.40	2227.000	.5	767769.000	1.5
13.0673	11.04	-.67	73221.000	.5	838490.000	1.5
13.0680	11.04	-.34	73260.000	1.5	838490.000	1.5
13.0721	10.04	-4.81	30293.000	2.0	795279.000	2.0
13.0721	10.04	-5.29	30293.000	2.0	795279.000	1.0
13.0723	11.04	-.98	73221.000	.5	838198.000	.5
13.0730	11.04	-.68	73260.000	1.5	838198.000	.5
13.0849	13.04	-.52	0.000	1.5	764240.000	1.5
13.1002	13.04	-.96	3442.000	.5	766790.000	.5
13.1335	9.04	-4.70	86408.000	2.5	847817.000	3.5
13.1346	11.04	-.35	48337.000	2.5	809687.000	2.5
13.1346	11.04	0.00	48337.000	2.5	809687.000	2.5
13.1350	11.04	-.82	48362.000	1.5	809687.000	2.5
13.1350	11.04	.20	48362.000	1.5	809687.000	2.5
13.1410	11.04	-1.27	48337.000	2.5	809313.000	1.5
13.1410	11.04	-.88	48337.000	2.5	809313.000	1.5
13.1415	11.04	-.52	48362.000	1.5	809313.000	1.5
13.1415	11.04	-.20	48362.000	1.5	809313.000	1.5
13.1441	13.04	-1.29	3442.000	.5	764240.000	1.5
13.1648	13.03	-2.40	0.000	0.0	759600.900	1.0
13.2105	11.03	-2.91	0.000	2.0	756973.000	3.0
13.2211	11.03	-2.19	0.000	2.0	756367.000	1.0
13.2211	11.03	-1.18	0.000	2.0	756367.000	2.0
13.2211	11.03	-.53	0.000	2.0	756367.000	3.0
13.2240	11.04	-.05	73260.000	1.5	829459.000	2.5
13.2246	9.04	-.97	86044.000	1.5	842209.000	2.5
13.2261	11.05	-4.69	312175.000	2.0	1068258.000	3.0
13.2310	9.04	-.60	86408.000	2.5	842209.000	2.5
13.2318	11.03	-1.41	0.000	2.0	755757.000	2.0
13.2404	11.03	-1.11	1105.500	1.0	756367.000	1.0
13.2404	11.03	-.79	1105.500	1.0	756367.000	2.0
13.2406	13.04	-4.88	0.000	1.5	755250.000	.5
13.2450	9.04	-.75	85792.000	.5	840794.000	.5
13.2450	9.04	-.75	85792.000	.5	840794.000	1.5
13.2484	9.04	-.35	86044.000	1.5	840852.000	2.5
13.2487	11.03	-1.09	1576.000	0.0	756367.000	1.0
13.2494	9.04	-1.45	86044.000	1.5	840794.000	.5
13.2494	9.04	-.64	86044.000	1.5	840794.000	1.5
13.2511	9.04	-.07	86408.000	2.5	841062.000	3.5
13.2511	11.03	-5.77	1105.500	1.0	755757.000	2.0
13.2548	9.04	-.72	86408.000	2.5	840852.000	2.5
13.2558	9.04	-1.67	86408.000	2.5	840794.000	1.5
13.2633	13.04	-2.50	0.000	1.5	753960.000	1.5
13.2808	12.03	-1.49	0.000	1.5	752965.000	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
13.6731	11.03	-1.67	1576.000	0.0	732940.000	1.0	14.4019	10.03	-1.91	0.000	1.5	694353.000	2.5
13.6752	11.03	-1.19	1105.500	1.0	732355.000	0.0	14.4151	10.03	-2.13	0.000	1.5	693717.000	1.5
13.6752	11.03	-1.18	1105.500	1.0	732355.000	1.0	14.4158	10.05	-4.46	230853.000	.5	924538.000	.5
13.6752	11.03	-1.16	1105.500	1.0	732355.000	2.0	14.4158	10.05	-4.46	230853.000	.5	924538.000	1.5
13.6840	11.03	-1.19	1576.000	0.0	732355.000	1.0	14.4278	10.03	-2.51	0.000	1.5	693106.000	.5
13.6853	11.03	-5.07	0.000	2.0	730712.000	1.0	14.4869	10.04	-1.76	414.000	1.0	690691.000	2.0
13.6853	11.03	-1.61	0.000	2.0	730712.000	2.0	14.4954	11.03	-2.51	66492.000	0.0	756367.000	1.0
13.6853	11.03	-.54	0.000	2.0	730712.000	3.0	14.5016	10.04	-4.07	1112.000	2.0	690691.000	2.0
13.6882	11.03	-1.84	1105.500	1.0	731660.000	1.0	14.5176	9.04	-.82	152876.000	2.5	841695.000	2.5
13.6971	11.03	-1.94	1576.000	0.0	731660.000	1.0	14.5181	9.04	-1.95	152898.000	1.5	841695.000	2.5
13.7060	11.03	-1.67	1105.500	1.0	730712.000	1.0	14.5196	9.04	-1.97	152876.000	2.5	841598.000	1.5
13.7060	11.03	-.80	1105.500	1.0	730712.000	2.0	14.5201	9.04	-1.02	152898.000	1.5	841598.000	1.5
13.7149	11.03	-1.31	1576.000	0.0	730712.000	1.0	14.5310	9.04	-4.76	152876.000	2.5	841062.000	3.5
13.7454	11.05	-.97	320589.000	1.0	1048104.000	1.0	14.6060	11.03	-2.27	0.000	2.0	684649.000	1.0
13.7586	11.05	-.73	320589.000	1.0	1047408.000	2.0	14.6060	11.03	-1.10	0.000	2.0	684649.000	2.0
13.7716	11.03	-.30	30839.400	2.0	756973.000	3.0	14.6060	11.03	-.35	0.000	2.0	684649.000	3.0
13.7809	11.04	-1.44	73221.000	.5	798862.000	.5	14.6105	11.04	-4.05	0.000	1.5	684440.000	1.5
13.7817	11.04	-1.85	73260.000	1.5	798862.000	.5	14.6296	11.03	-1.11	1105.500	1.0	684649.000	1.0
13.7831	11.03	-4.19	30839.400	2.0	756367.000	1.0	14.6296	11.03	-.64	1105.500	1.0	684649.000	2.0
13.7831	11.03	-1.69	30839.400	2.0	756367.000	2.0	14.6312	10.03	-2.83	41217.000	2.5	724690.000	1.5
13.7831	11.03	-2.76	30839.400	2.0	756367.000	3.0	14.6312	10.03	-1.68	41217.000	2.5	724690.000	2.5
13.7855	11.04	-2.09	73221.000	.5	798620.000	1.5	14.6321	10.03	-1.87	41262.000	1.5	724690.000	1.5
13.7863	11.04	-1.47	73260.000	1.5	798620.000	1.5	14.6321	10.03	-2.83	41262.000	1.5	724690.000	2.5
13.7947	11.04	-1.21	73260.000	1.5	798174.000	2.5	14.6362	11.04	-4.60	0.000	1.5	683237.000	.5
13.7947	11.03	-1.22	30839.400	2.0	755757.000	2.0	14.6397	11.03	-.99	1576.000	0.0	684649.000	1.0
13.7967	12.03	-1.97	0.000	1.5	724809.000	.5	14.6526	12.03	-1.21	0.000	1.5	682471.000	1.5
13.7970	11.04	-2.45	73260.000	1.5	798055.000	2.5	14.6838	12.03	-1.12	0.000	1.5	681024.000	.5
13.7990	10.03	-8.09	0.000	1.5	724690.000	1.5	14.6949	12.03	-2.29	0.000	1.5	680510.000	2.5
13.7990	10.03	-7.17	0.000	1.5	724690.000	2.5	14.7006	12.03	-.23	2227.000	.5	682471.000	1.5
13.8112	11.04	-4.06	73221.000	.5	797270.000	.5	14.7052	12.03	-.42	0.000	1.5	680030.000	1.5
13.8119	9.04	-2.22	86044.000	1.5	810055.000	2.5	14.7132	10.04	.48	30293.000	2.0	709956.000	3.0
13.8120	11.04	-3.45	73260.000	1.5	797270.000	.5	14.7319	12.03	-.84	2227.000	.5	681024.000	.5
13.8152	11.04	-2.03	73221.000	.5	797060.000	1.5	14.7405	12.03	.01	0.000	1.5	678403.000	2.5
13.8160	11.04	-2.24	73260.000	1.5	797060.000	1.5	14.7535	12.03	-.92	0.000	1.5	677805.000	1.5
13.8160	11.04	-2.85	73260.000	1.5	797060.000	2.5	14.7535	12.03	-.74	2227.000	.5	680030.000	1.5
13.8189	9.04	-1.85	86408.000	2.5	810055.000	2.5	14.7633	12.03	-2.00	0.000	1.5	677355.000	1.5
13.8264	12.03	-1.24	0.000	1.5	723254.000	1.5	14.7746	12.03	-.50	0.000	1.5	676837.000	2.5
13.8387	10.05	-1.25	0.000	.5	722610.000	.5	14.7888	11.04	-1.24	73221.000	.5	749407.000	.5
13.8393	12.03	-1.67	2227.000	.5	724809.000	.5	14.7897	11.04	-.96	73260.000	1.5	749407.000	.5
13.8639	10.05	-.94	1310.000	1.5	722610.000	.5	14.8021	12.03	-1.29	2227.000	.5	677805.000	1.5
13.8691	12.03	-1.96	2227.000	.5	723254.000	1.5	14.8120	12.03	-1.20	2227.000	.5	677355.000	1.5
13.8813	11.04	-.88	73221.000	.5	793616.000	.5	14.8459	10.03	-2.42	0.000	1.5	673587.000	2.5
13.8820	11.04	-1.21	73260.000	1.5	793616.000	.5	14.8494	10.03	-2.99	0.000	1.5	673427.000	1.5
13.8911	11.04	-1.08	73221.000	.5	793104.000	1.5	14.8642	11.04	-.76	0.000	1.5	672757.000	2.5
13.8919	11.04	-.48	73260.000	1.5	793104.000	1.5	14.8660	10.03	-.79	0.000	1.5	672676.000	.5
13.9316	11.05	-1.28	350179.000	1.0	1067971.000	2.0	14.8783	10.04	-1.42	30293.000	2.0	702412.000	1.0
13.9357	11.05	-.85	350179.000	1.0	1067760.000	1.0	14.8787	10.03	-.48	0.000	1.5	672102.000	1.5
13.9991	12.03	-.52	0.000	1.5	714330.000	.5	14.8856	11.04	-.93	0.000	1.5	671790.000	1.5
14.0123	12.03	-2.29	0.000	1.5	713660.000	2.5	14.8858	10.04	-3.65	30293.000	2.0	702074.000	1.0
14.0176	12.03	-.30	0.000	1.5	713389.000	2.5	14.8927	10.04	-2.44	30293.000	2.0	701765.000	2.0
14.0265	9.04	-1.91	0.000	.5	712936.000	.5	14.8942	10.03	-.29	0.000	1.5	671402.000	2.5
14.0412	9.04	-1.61	744.500	1.5	712936.000	.5	14.9001	11.04	-1.23	0.000	1.5	671136.000	.5
14.0426	12.03	-1.13	0.000	1.5	712120.000	1.5	14.9121	10.03	-5.03	0.000	1.5	670595.000	2.5
14.0429	12.03	-.91	2227.000	.5	714330.000	.5	14.9602	10.04	-2.22	30293.000	2.0	698735.000	3.0
14.0476	12.03	-.24	0.000	1.5	711865.000	1.5	14.9646	10.03	-3.47	41217.000	2.5	709460.000	1.5
14.0524	12.03	-.99	0.000	1.5	711622.000	.5	14.9646	10.03	-2.33	41217.000	2.5	709460.000	2.5
14.0836	11.05	-1.58	241341.000	1.0	951389.000	2.0	14.9656	10.03	-2.45	41262.000	1.5	709460.000	1.5
14.0836	11.05	-1.45	241341.000	2.0	951389.000	2.0	14.9656	10.03	-4.11	41262.000	1.5	709460.000	2.5
14.0836	11.04	-5.19	0.000	1.5	710044.000	1.5	14.9681	10.04	-2.48	30293.000	2.0	698382.000	2.0
14.0836	11.04	-4.24	0.000	1.5	710044.000	2.5	14.9714	10.04	-2.86	30293.000	2.0	698231.000	1.0
14.0866	12.03	-.52	2227.000	.5	712120.000	1.5	14.9833	11.03	-1.20	0.000	2.0	667408.000	3.0
14.0917	12.03	-.87	2227.000	.5	711865.000	1.5	15.0049	11.03	-3.41	66492.000	0.0	732940.000	1.0
14.0952	10.03	-4.74	0.000	1.5	709460.000	1.5	15.0088	8.05	-.46	0.000	0.0	666275.785	0.0
14.0952	10.03	-3.76	0.000	1.5	709460.000	2.5	15.0124	8.05	-.76	0.000	0.0	666116.011	0.0
14.0965	12.03	-.56	2227.000	.5	711622.000	.5	15.0129	11.05	-.94	350179.000	1.0	1016274.000	1.0
14.1039	11.05	-1.42	241341.000	0.0	950367.000	1.0	15.0129	11.05	-1.40	350179.000	1.0	1016274.000	2.0
14.1039	11.05	-1.81	241341.000	1.0	950367.000	1.0	15.0181	11.03	-3.18	66492.000	0.0	732355.000	1.0
14.1039	11.05	-.94	241341.000	2.0	950367.000	1.0	15.0294	11.03	-1.52	0.000	2.0	665362.000	1.0
14.1075	10.04	-2.27	1112.000	2.0	709956.000	3.0	15.0294	11.03	-1.53	0.000	2.0	665362.000	2.0
14.1156	11.05	-2.28	241341.000	1.0	949778.000	0.0	15.0294	11.03	-.37	0.000	2.0	665362.000	3.0
14.2105	11.05	.10	350179.000	1.0	1053885.000	2.0	15.0296	11.03	-2.99	0.000	2.0	665352.000	1.0
14.2234	11.03	-.15	30839.400	2.0	733907.000	3.0	15.0338	11.03	-3.18	66492.000	0.0	731660.000	1.0
14.2365	11.03	-.35	30839.400	2.0	73260.000	2.0	15.0463	11.03	-2.64	0.000	2.0	664616.000	2.0
14.2367	10.04	-1.54	0.000	0.0	702412.000	1.0	15.0544	11.03	-.62	1105.500	1.0	665362.000	1.0
14.2430	11.03	-3.39	30839.400	2.0	732940.000	1.0	15.0544	11.03	-.93	1105.500	1.0	665362.000	2.0
14.2435	10.04	-1.31	0.000	0.0	702074.000	1.0	15.0547	11.03	-2.55	1105.500	1.0	665352.000	1.0
14.2441	10.04	-.72	414.000	1.0	702459.000	0.0	15.0553	11.03	-2.71	66492.000	0.0	730712.000	1.0
14.2451	10.04	-2.84	414.000	1.0	702412.000	1.0	15.0574	10.03	-7.66	0.000	1.5	664124.000	1.5
14.2519	10.04	-.54	414.000	1.0	702074.000	1.0	15.0574	10.03	-6.72	0.000	1.5	664124.000	2.5
14.2549	11.03	-2.75	30839.400	2.0	732355.000	1.0	15.0651	11.03	-1.09	1576.000	0.0	665362.000	1.0
14.2549	11.03	-2.53	30839.400	2.0	732355.000	2.0	15.0653	1					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
15.2950	11.03	-6.65	30839.400	2.0	684649.000	1.0	15.8786	11.05	-1.58	320589.000	1.0	950367.000	1.0
15.2950	11.03	-7.81	30839.400	2.0	684649.000	2.0	15.8880	9.03	-3.65	612.200	2.0	630019.000	2.0
15.2950	11.03	-6.51	30839.400	2.0	684649.000	3.0	15.8887	10.03	-1.79	41217.000	2.5	670595.000	2.5
15.2997	9.03	-1.92	225.200	1.0	653833.000	0.0	15.8898	10.03	-4.49	41262.000	1.5	670595.000	2.5
15.2997	9.03	-2.04	225.200	1.0	653833.000	1.0	15.8901	9.03	-3.46	225.200	1.0	629547.000	2.0
15.3011	9.03	-1.82	225.200	1.0	653772.000	2.0	15.8923	9.03	-7.74	25234.400	2.0	654469.000	3.0
15.3088	9.03	-1.82	612.200	2.0	653833.000	1.0	15.8935	11.05	-1.47	320589.000	1.0	949778.000	0.0
15.3102	9.03	-1.34	612.200	2.0	653772.000	2.0	15.8999	9.03	-2.67	612.200	2.0	629547.000	2.0
15.3107	10.03	-6.98	41217.000	2.5	694353.000	2.5	15.9084	9.03	-5.71	25234.400	2.0	653833.000	1.0
15.3118	10.03	-8.13	41262.000	1.5	694353.000	2.5	15.9099	9.03	-5.23	25234.400	2.0	653772.000	2.0
15.3141	9.03	-8.1	612.200	2.0	653606.000	3.0	15.9142	9.03	-4.70	25234.400	2.0	653606.000	3.0
15.3257	10.03	-2.43	41217.000	2.5	693717.000	1.5	15.9516	9.04	-4.11	86408.000	2.5	713306.000	3.5
15.3267	10.03	-3.38	41262.000	1.5	693717.000	1.5	15.9562	9.04	-1.05	214881.000	.5	841598.000	1.5
15.3411	10.03	-2.38	41262.000	1.5	693106.000	.5	15.9656	9.04	-8.0	215348.000	1.5	841695.000	2.5
15.4549	10.03	-1.07	62417.000	.5	709460.000	1.5	15.9681	9.04	-1.74	215348.000	1.5	841598.000	1.5
15.4551	10.03	-1.80	62423.000	1.5	709460.000	1.5	16.0072	13.03	-7.3	0.000	0.0	624720.500	1.0
15.4551	10.03	-8.5	62423.000	1.5	709460.000	2.5	16.0149	11.04	-3.83	48337.000	2.5	672757.000	2.5
15.4697	11.03	-3.17	0.000	2.0	646423.000	3.0	16.0155	11.04	-4.96	48362.000	1.5	672757.000	2.5
15.5246	11.03	-6.1	0.000	2.0	644140.000	1.0	16.0230	12.03	-1.29	0.000	1.5	624102.000	.5
15.5272	9.04	-4.43	197565.000	.5	841598.000	1.5	16.0397	11.04	-3.59	48337.000	2.5	671790.000	1.5
15.5370	11.03	-1.95	0.000	2.0	643624.000	2.0	16.0403	11.04	-4.08	48362.000	1.5	671790.000	1.5
15.5448	11.03	-5.4	0.000	2.0	643304.000	1.0	16.0486	10.04	-4.75	175905.000	2.0	799013.000	1.0
15.5513	11.03	-4.6	1105.500	1.0	644140.000	1.0	16.0538	10.03	-2.39	41217.000	2.5	664124.000	1.5
15.5514	11.03	-3.34	0.000	2.0	643029.000	2.0	16.0538	10.03	-1.23	41217.000	2.5	664124.000	2.5
15.5627	11.03	-8.4	1576.000	0.0	644140.000	1.0	16.0539	10.04	-4.53	175905.000	2.0	798806.000	2.0
15.5638	11.03	-2.53	1105.500	1.0	643624.000	2.0	16.0549	10.03	-1.43	41262.000	1.5	664124.000	1.5
15.5693	11.03	-6.9	1105.500	1.0	643396.000	0.0	16.0549	10.03	-2.38	41262.000	1.5	664124.000	2.5
15.5715	11.03	-2.16	1105.500	1.0	643304.000	1.0	16.0572	11.04	-4.05	48362.000	1.5	671136.000	.5
15.5782	11.03	-4.21	1105.500	1.0	643029.000	2.0	16.0583	10.04	-4.38	175905.000	2.0	798635.000	3.0
15.5829	11.03	-1.02	1576.000	0.0	643304.000	1.0	16.0804	12.03	-1.53	2227.000	.5	624102.000	.5
15.5962	11.03	-1.21	0.000	2.0	641180.000	1.0	16.1687	13.03	-1.88	0.000	0.0	618477.500	1.0
15.6145	9.04	-1.75	152876.000	2.5	793308.000	1.5	16.1740	9.03	-4.38	612.200	2.0	618889.000	1.0
15.6150	9.04	-2.00	152898.000	1.5	793308.000	.5	16.1771	11.03	-4.10	66492.000	0.0	684649.000	1.0
15.6150	9.04	-2.82	152898.000	1.5	793308.000	1.5	16.2016	9.04	-1.13	85792.000	.5	703016.000	.5
15.6232	11.03	-3.11	1105.500	1.0	641180.000	1.0	16.2053	9.04	-4.43	85792.000	.5	702874.000	1.5
15.6347	11.03	-7.1	1576.000	0.0	641180.000	1.0	16.2082	9.04	-4.43	86044.000	1.5	703016.000	.5
15.6500	11.03	-8.0	0.000	2.0	638977.000	1.0	16.2119	9.04	-9.3	86044.000	1.5	702874.000	1.5
15.6509	11.03	-2.0	0.000	2.0	638942.000	2.0	16.2174	9.04	-4.0	86044.000	1.5	702665.000	2.5
15.6536	11.03	-4.7	0.000	2.0	638831.000	3.0	16.2211	10.03	-4.06	0.000	1.5	616482.000	.5
15.6542	10.03	-1.24	62417.000	.5	701223.000	.5	16.2215	9.04	-4.0	86408.000	2.5	702874.000	1.5
15.6542	10.03	-1.55	62417.000	.5	701223.000	1.5	16.2270	9.04	-0.3	86408.000	2.5	702665.000	2.5
15.6544	10.03	-1.61	62423.000	1.5	701223.000	.5	16.2447	11.03	.38	30839.400	2.0	646423.000	3.0
15.6544	10.03	-8.5	62423.000	1.5	701223.000	1.5	16.2562	7.04	-8.7	0.000	0.0	615149.912	0.0
15.6614	10.04	-1.0	63899.000	0.0	702412.000	1.0	16.3052	11.03	-2.39	30839.400	2.0	644140.000	1.0
15.6697	10.04	-1.95	63899.000	0.0	702074.000	1.0	16.3137	9.04	-4.80	86408.000	2.5	699389.000	2.5
15.6771	11.03	-7.1	1105.500	1.0	638977.000	1.0	16.3140	22.04	-1.62	0.000	0.0	612970.000	1.0
15.6780	11.03	-9.9	1105.500	1.0	638942.000	2.0	16.3189	11.03	.10	30839.400	2.0	643624.000	2.0
15.6887	11.03	-1.50	1576.000	0.0	638977.000	1.0	16.3190	10.03	-4.77	0.000	1.5	612781.000	1.5
15.6935	10.03	-1.17	62417.000	.5	699622.000	1.5	16.3221	10.03	-4.22	0.000	1.5	612668.000	.5
15.6937	10.03	-1.86	62423.000	1.5	699622.000	1.5	16.3225	11.05	-8.7	312175.000	2.0	924828.000	3.0
15.6937	10.03	-8.8	62423.000	1.5	699622.000	2.5	16.3275	11.03	-7.9	30839.400	2.0	643304.000	1.0
15.7030	11.04	-1.20	73221.000	.5	710044.000	1.5	16.3341	9.03	-4.03	612.200	2.0	612830.000	2.0
15.7039	11.04	-1.74	73260.000	1.5	710044.000	1.5	16.3348	11.03	-1.72	30839.400	2.0	643029.000	2.0
15.7039	11.04	-9.3	73260.000	1.5	710044.000	2.5	16.3457	9.04	-1.5	85792.000	.5	697574.000	.5
15.7092	11.03	-2.2	30839.400	2.0	667408.000	3.0	16.3457	9.04	-1.5	85792.000	.5	697574.000	1.5
15.7115	10.03	-5.24	0.000	1.5	636475.000	1.5	16.3476	11.05	-1.01	312175.000	2.0	923885.000	2.0
15.7207	11.04	-5.9	48337.000	2.5	684440.000	1.5	16.3497	9.04	.25	86044.000	1.5	697676.000	2.5
15.7213	11.04	-1.67	48362.000	1.5	684440.000	1.5	16.3524	9.04	-8.5	86044.000	1.5	697574.000	.5
15.7266	10.03	-5.91	0.000	1.5	635866.000	.5	16.3524	9.04	-0.5	86044.000	1.5	697574.000	1.5
15.7373	10.03	-3.76	62423.000	1.5	697855.000	2.5	16.3558	9.04	.53	86408.000	2.5	697812.000	3.5
15.7508	9.04	-6.0	152876.000	2.5	787764.000	2.5	16.3594	9.04	-1.2	86408.000	2.5	697676.000	2.5
15.7511	11.04	-8.4	48362.000	1.5	683237.000	.5	16.3607	11.04	-1.47	73221.000	.5	684440.000	1.5
15.7514	9.04	-1.80	152898.000	1.5	787764.000	2.5	16.3618	11.04	-8.1	73260.000	1.5	684440.000	1.5
15.7518	9.04	-1.74	152876.000	2.5	787725.000	1.5	16.3622	9.04	-1.08	86408.000	2.5	697574.000	1.5
15.7523	9.04	-7.8	152898.000	1.5	787725.000	1.5	16.3622	10.03	-5.3	62423.000	1.5	673587.000	2.5
15.7599	11.03	-2.87	30839.400	2.0	665362.000	1.0	16.3663	10.03	-8.0	62417.000	.5	673427.000	1.5
15.7599	11.03	-5.8	30839.400	2.0	665362.000	2.0	16.3665	11.05	-1.23	312175.000	2.0	923179.000	1.0
15.7599	11.03	-4.8	30839.400	2.0	665362.000	3.0	16.3665	10.03	-1.37	62423.000	1.5	673427.000	1.5
15.7601	11.03	-1.31	30839.400	2.0	665352.000	1.0	16.3843	11.03	-8.3	30839.400	2.0	641180.000	1.0
15.7626	10.03	-1.48	0.000	1.5	634413.000	2.5	16.3865	10.03	-4.78	62417.000	.5	672676.000	.5
15.7646	10.04	-1.63	63899.000	0.0	698231.000	1.0	16.3866	10.03	-4.59	62423.000	1.5	672676.000	.5
15.7781	10.03	-1.64	0.000	1.5	633790.000	1.5	16.3930	11.04	-1.21	73221.000	.5	683237.000	.5
15.7784	11.03	-1.12	30839.400	2.0	664616.000	2.0	16.3941	11.04	-1.51	73260.000	1.5	683237.000	.5
15.7862	10.03	-1.94	0.000	1.5	633465.000	.5	16.4019	10.03	-3.18	62417.000	.5	672102.000	1.5
15.8003	9.04	-4.97	85792.000	.5	718691.000	.5	16.4021	10.03	-3.75	62423.000	1.5	672102.000	1.5
15.8040	11.03	-2.91	30839.400	2.0	663592.000	1.0	16.4150	9.03	-3.83	612.200	2.0	609811.000	3.0
15.8040	11.03	-2.72	30839.400	2.0	663592.000	2.0	16.4172	10.03	-3.53	0.000	1.5	609118.000	1.5
15.8043	9.03	-2.38	0.000	0.0	632740.000	1.0	16.4172	10.03	-3.82	0.000	1.5	609118.000	2.5
15.8058	9.04	-4.57	85792.000	.5	718472.000	1.5	16.4209	10.03	-2.48	62423.000	1.5	671402.000	2.5
15.8099	9.03	-3.24	225.200	1.0	632740.000	1.0	16.4427	10.03	-2.57	62423.000	1.5	670595.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
16.7065	11.04	-4.80	73221.000	.5	671790.000	1.5	17.4221	8.03	-1.04	385.900	1.5	574368.700	2.5
16.7076	11.04	-3.79	73260.000	1.5	671790.000	1.5	17.4221	8.03	-1.99	385.900	1.5	574368.700	1.5
16.7248	11.04	-5.30	73221.000	.5	671136.000	.5	17.4383	10.03	-1.89	62417.000	.5	635866.000	.5
16.7259	11.04	-4.14	73260.000	1.5	671136.000	.5	17.4385	10.03	-2.19	62423.000	1.5	635866.000	.5
16.7474	10.04	-1.13	414.000	1.0	597523.000	2.0	17.4494	9.04	-9.91	307226.000	2.5	880312.000	2.5
16.7476	11.03	-2.84	66492.000	0.0	663592.000	1.0	17.4494	9.04	.39	307226.000	2.5	880312.000	3.5
16.7609	10.04	-1.22	0.000	0.0	596626.000	1.0	17.4508	9.04	.24	307273.000	1.5	880312.000	2.5
16.7670	10.04	-4.65	1112.000	2.0	597523.000	2.0	17.4568	9.04	.19	214881.000	.5	787725.000	1.5
16.7726	10.04	-1.35	414.000	1.0	596626.000	1.0	17.4677	11.03	-2.92	66492.000	0.0	638977.000	1.0
16.7830	10.04	-1.22	414.000	1.0	596254.000	0.0	17.4698	9.04	.44	215348.000	1.5	787764.000	2.5
16.7858	9.04	-6.66	197565.000	.5	793308.000	.5	17.4710	9.04	-5.52	215348.000	1.5	787725.000	1.5
16.7858	9.04	-3.39	197565.000	.5	793308.000	1.5	17.4959	10.03	-1.59	41217.000	2.5	612781.000	1.5
16.7922	10.04	-1.12	1112.000	2.0	596626.000	1.0	17.4972	10.03	-6.62	41262.000	1.5	612781.000	1.5
16.7994	10.03	-1.29	41217.000	2.5	636475.000	1.5	17.5007	10.03	-9.95	41262.000	1.5	612668.000	.5
16.8007	10.03	-2.25	41262.000	1.5	636475.000	1.5	17.5963	9.04	-4.62	215348.000	1.5	783650.000	2.5
16.8084	11.03	.13	0.000	2.0	594941.000	3.0	17.6087	10.03	-9.71	41217.000	2.5	609118.000	1.5
16.8096	11.03	-6.61	0.000	2.0	594898.000	2.0	17.6087	10.03	-9.62	41217.000	2.5	609118.000	2.5
16.8097	11.03	-1.78	0.000	2.0	594893.000	1.0	17.6101	10.03	-1.47	41262.000	1.5	609118.000	1.5
16.8179	10.03	-1.53	41262.000	1.5	635866.000	.5	17.6101	10.03	-1.94	41262.000	1.5	609118.000	2.5
16.8283	10.04	-1.51	270564.000	2.0	864802.000	2.0	17.6230	9.03	-2.02	25234.400	2.0	592674.000	1.0
16.8283	10.04	-1.36	270564.000	2.0	864802.000	3.0	17.6295	10.04	-4.18	30293.000	2.0	597523.000	2.0
16.8283	10.04	-1.73	270564.000	2.0	864802.000	1.0	17.6365	9.03	-9.09	25234.400	2.0	592240.000	3.0
16.8409	11.03	-1.17	1105.500	1.0	594898.000	2.0	17.6467	9.04	-9.94	307226.000	2.5	873904.000	1.5
16.8410	11.03	-6.64	1105.500	1.0	594893.000	1.0	17.6467	9.04	.20	307226.000	2.5	873904.000	2.5
16.8448	9.03	-5.52	25234.400	2.0	618889.000	1.0	17.6482	9.04	.01	307273.000	1.5	873904.000	1.5
16.8544	11.03	-5.52	1576.000	0.0	594893.000	1.0	17.6482	9.04	-9.94	307273.000	1.5	873904.000	2.5
16.8578	10.03	-6.52	41217.000	2.5	634413.000	2.5	17.6575	10.04	-2.98	30293.000	2.0	596626.000	1.0
16.8591	10.03	-7.66	41262.000	1.5	634413.000	2.5	17.6743	9.04	-1.71	152898.000	1.5	718691.000	.5
16.8727	9.03	-2.47	0.000	0.0	592674.000	1.0	17.6805	9.04	-1.45	152876.000	2.5	718472.000	1.5
16.8756	10.03	-4.90	41217.000	2.5	633790.000	1.5	17.6812	9.04	-2.37	152898.000	1.5	718472.000	1.5
16.8768	10.03	-5.73	41262.000	1.5	633790.000	1.5	17.7002	9.03	-5.15	25234.400	2.0	590201.000	1.0
16.8791	9.03	-3.38	225.200	1.0	592674.000	1.0	17.7057	9.03	-2.85	25234.400	2.0	590024.000	2.0
16.8861	10.03	-5.50	41262.000	1.5	633465.000	.5	17.7242	10.03	-9.78	41217.000	2.5	605417.000	2.5
16.8901	9.03	-3.89	612.200	2.0	592674.000	1.0	17.7242	10.03	.58	41217.000	2.5	605417.000	3.5
16.9025	9.03	-2.65	612.200	2.0	592240.000	3.0	17.7251	9.03	-2.68	25234.400	2.0	589406.000	3.0
16.9142	12.02	-2.20	0.000	0.0	591220.700	1.0	17.7256	10.03	.44	41262.000	1.5	605417.000	2.5
16.9161	9.03	-2.78	147841.800	3.0	738996.000	2.0	17.7273	11.03	-3.31	30839.400	2.0	594941.000	3.0
16.9161	9.03	-1.24	147841.800	3.0	738996.000	3.0	17.7287	11.03	-4.28	30839.400	2.0	594898.000	2.0
16.9161	9.03	-1.18	147841.800	3.0	738996.000	4.0	17.7288	11.03	-8.10	30839.400	2.0	594893.000	1.0
16.9174	9.03	-4.73	147888.900	2.0	738996.000	2.0	17.7320	9.03	-2.51	25234.400	2.0	589188.000	2.0
16.9174	9.03	-3.83	147888.900	2.0	738996.000	3.0	17.7344	9.03	-3.79	25234.400	2.0	589109.000	1.0
16.9434	9.03	-1.85	0.000	0.0	590201.000	1.0	17.7381	9.03	-1.26	175237.000	2.0	738996.000	2.0
16.9446	9.04	-3.19	197565.000	.5	787725.000	1.5	17.7381	9.03	-3.36	175237.000	2.0	738996.000	3.0
16.9481	9.03	-1.29	225.200	1.0	590262.000	0.0	17.7553	8.03	-2.09	71439.800	.5	634653.000	.5
16.9498	9.03	-1.12	225.200	1.0	590201.000	1.0	17.7562	8.03	-1.39	71439.800	.5	634622.000	1.5
16.9549	9.03	-5.63	225.200	1.0	590024.000	2.0	17.7594	8.03	-1.39	71570.100	1.5	634653.000	.5
16.9610	9.03	-1.15	612.200	2.0	590201.000	1.0	17.7604	8.03	-1.88	71570.100	1.5	634622.000	1.5
16.9661	9.03	-5.54	612.200	2.0	590024.000	2.0	17.7635	8.03	-1.35	71570.100	1.5	634523.000	2.5
16.9743	12.02	-2.14	0.000	0.0	589126.800	1.0	17.7662	8.03	-1.35	71555.500	2.5	634622.000	1.5
16.9748	9.03	-1.72	0.000	0.0	589109.000	1.0	17.7693	8.03	-9.99	71555.500	2.5	634523.000	2.5
16.9790	9.03	-4.40	225.200	1.0	589188.000	2.0	17.7801	8.03	-4.45	71555.500	2.5	634182.000	3.5
16.9813	9.03	-1.10	225.200	1.0	589109.000	1.0	17.7969	9.03	-1.06	25234.400	2.0	587130.000	2.0
16.9839	9.03	-1.19	612.200	2.0	589406.000	3.0	17.8015	3.01	-9.95	0.000	0.0	561750.414	0.0
16.9902	9.03	-1.68	612.200	2.0	589188.000	2.0	17.8124	9.03	-1.15	25234.400	2.0	586641.000	2.0
16.9924	9.03	-3.25	612.200	2.0	589109.000	1.0	17.8168	9.03	-3.42	0.000	0.0	561267.000	1.0
17.0185	9.03	-1.18	25234.400	2.0	612830.000	2.0	17.8240	9.03	-3.49	225.200	1.0	561267.000	1.0
17.0382	10.03	-3.59	0.000	1.5	586918.000	2.5	17.8363	9.03	-3.39	612.200	2.0	561267.000	1.0
17.0385	9.03	-1.80	225.200	1.0	587130.000	2.0	17.8434	9.04	.50	152876.000	2.5	713306.000	3.5
17.0449	10.03	-4.49	0.000	1.5	586685.000	1.5	17.8546	9.03	-1.86	225.200	1.0	560304.000	2.0
17.0498	9.03	-5.33	612.200	2.0	587130.000	2.0	17.8583	9.04	-8.80	152876.000	2.5	712840.000	2.5
17.0527	9.03	-4.66	225.200	1.0	586641.000	2.0	17.8590	9.04	.35	152898.000	1.5	712840.000	2.5
17.0640	9.03	-2.75	612.200	2.0	586641.000	2.0	17.8609	9.03	-1.96	0.000	0.0	559881.000	1.0
17.0804	12.02	-1.81	0.000	0.0	585466.200	1.0	17.8610	9.04	-8.83	152876.000	2.5	712755.000	1.5
17.0988	8.03	-7.73	71755.500	2.5	656591.000	3.5	17.8617	9.04	-1.09	152898.000	1.5	712755.000	.5
17.1064	9.03	.02	25234.400	2.0	609811.000	3.0	17.8617	9.04	-1.76	152898.000	1.5	712755.000	1.5
17.1105	9.03	-3.33	74194.000	2.0	658629.000	1.0	17.8670	9.03	-1.38	612.200	2.0	560304.000	2.0
17.1213	9.04	-1.04	276414.000	1.5	860482.000	.5	17.8681	9.03	-2.08	225.200	1.0	559881.000	1.0
17.1244	9.04	.26	276414.000	1.5	860376.000	1.5	17.8724	9.03	-1.94	225.200	1.0	559747.000	0.0
17.1302	9.04	.44	276414.000	1.5	860178.000	2.5	17.8805	9.03	-1.86	612.200	2.0	559881.000	1.0
17.1327	16.05	-1.75	0.000	.5	583679.000	1.5	17.9827	9.03	-1.33	225.200	1.0	556316.000	2.0
17.1348	9.03	.27	74194.000	2.0	657800.000	2.0	17.9840	9.03	-1.42	0.000	0.0	556051.000	1.0
17.1394	12.02	-9.92	0.000	0.0	583450.500	1.0	17.9912	9.03	-1.55	225.200	1.0	556051.000	1.0
17.1423	9.03	.48	74194.000	2.0	657546.000	3.0	17.9932	9.03	-9.86	612.200	2.0	556316.000	2.0
17.1648	12.03	-1.72	0.000	1.5	582589.000	1.5	18.0038	9.03	-1.33	612.200	2.0	556051.000	1.0
17.1653	12.03	-9.64	0.000	1.5	582571.000	2.5	18.0071	12.03	-1.21	0.000	1.5	555338.000	.5
17.1900	12.02	-2.46	0.000	0.0	581734.700	1.0	18.0484	10.03	-1.05	62417.000	.5	616482.000	.5
17.2168	8.04	-2.23	0.000	0.0	580828.028	0.0	18.0486	10.03	-9.73	62423.000	1.5	616482.000	.5
17.2252	9.03	-4.77	74194.000	2.0	654739.000	1.0	18.0617	12.03	-9.50	0.000	1.5	553659.000	1.5
17.2306	12.03	-8.87	2227.000	.5	582589.000	1.5	18.0796	12.03	-9.92	2227.000	.5	555338.000	.5
17.2492	10.03	-2.26	0.000	1.5	579737.000	.5	18.1150	8.03	-1.01	0.000	.5	552029.600	1.5
17.2525	10.03	-1.70											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
18.3214	9.04	-1.34	307226.000	2.5	853035.000	1.5
18.3230	9.04	-2.29	307273.000	1.5	853035.000	1.5
18.3251	10.03	-1.30	41217.000	2.5	586918.000	2.5
18.3266	10.03	-4.08	41262.000	1.5	586918.000	2.5
18.3329	10.03	-2.55	41217.000	2.5	586685.000	1.5
18.3344	10.03	-1.47	41262.000	1.5	586685.000	1.5
18.3438	12.03	-2.70	0.000	1.5	545143.500	1.5
18.3508	9.04	-4.18	152876.000	2.5	697812.000	3.5
18.3554	9.04	-4.82	152876.000	2.5	697812.000	3.5
18.3575	11.02	-0.83	0.000	1.5	544736.000	2.5
18.3747	11.02	-1.58	0.000	1.5	544227.000	1.5
18.3747	11.02	-0.78	0.000	1.5	544227.000	1.5
18.3913	12.03	-3.53	2227.000	1.5	545962.100	1.5
18.3916	12.03	-3.69	0.000	1.5	543727.000	2.5
18.3937	8.05	-1.24	96375.000	0.0	640039.407	0.0
18.4117	8.05	-0.94	96908.000	0.0	640040.899	0.0
18.4164	10.03	-3.90	62423.000	1.5	605417.000	2.5
18.4190	12.03	-3.73	2227.000	1.5	545143.500	1.5
18.4209	11.02	-1.09	1366.000	1.5	544227.000	1.5
18.4209	11.02	-1.37	1366.000	1.5	544227.000	1.5
18.4638	8.03	-1.25	126936.300	2.5	668538.000	2.5
18.4642	8.03	-2.43	126950.200	1.5	668538.000	2.5
18.4730	10.04	-1.17	63899.000	0.0	605231.000	1.0
18.5402	8.03	-2.28	0.000	1.5	539368.000	1.5
18.5482	9.03	-0.70	53537.000	0.0	592674.000	1.0
18.5535	8.03	-1.97	385.900	1.5	539368.000	1.5
18.5571	10.03	-3.02	41217.000	2.5	580095.000	3.5
18.5710	10.03	-4.88	41262.000	1.5	579737.000	1.5
18.5732	10.03	-1.23	41217.000	2.5	579626.000	1.5
18.5748	10.03	-0.31	41262.000	1.5	579626.000	1.5
18.5819	10.03	-4.06	41217.000	2.5	579375.000	2.5
18.5835	10.03	-4.19	41262.000	1.5	579375.000	2.5
18.5843	10.03	-1.12	41217.000	2.5	579307.000	2.5
18.5858	10.03	-1.30	41262.000	1.5	579307.000	2.5
18.6070	7.04	-0.62	80465.000	0.0	617897.149	0.0
18.6153	7.04	-0.36	80723.000	0.0	617915.524	0.0
18.6160	7.04	-1.31	80723.000	0.0	617895.325	0.0
18.6336	9.03	-3.22	53537.000	0.0	590201.000	1.0
18.6514	12.02	-0.42	0.000	0.0	536152.000	1.0
18.6556	9.03	-1.25	25234.400	2.0	561267.000	1.0
18.6672	10.03	-5.68	41217.000	2.5	576915.000	1.5
18.6672	10.03	-3.60	41217.000	2.5	576915.000	1.5
18.6684	9.04	-0.86	347418.000	1.5	883083.000	1.5
18.6688	10.03	-4.86	41262.000	1.5	576915.000	1.5
18.6688	10.03	-4.20	41262.000	1.5	576915.000	1.5
18.6691	9.04	-0.17	347438.000	1.5	883083.000	1.5
18.6715	9.04	-0.99	86044.000	1.5	621620.000	2.5
18.6716	9.03	-2.56	53537.000	0.0	589109.000	1.0
18.6737	9.04	-0.56	347418.000	1.5	882930.000	1.5
18.6744	9.04	-0.86	347438.000	1.5	882930.000	1.5
18.6790	9.04	-1.02	85792.000	1.5	621152.000	1.5
18.6842	9.04	-0.62	86408.000	2.5	621620.000	2.5
18.6878	9.04	-1.51	86044.000	1.5	621152.000	1.5
18.6880	9.04	-1.71	85792.000	1.5	620895.000	1.5
18.6884	10.03	-1.46	41262.000	1.5	576353.000	1.5
18.6892	9.03	-5.27	25234.400	2.0	560304.000	2.0
18.6968	9.04	-1.02	86044.000	1.5	620895.000	1.5
18.7003	10.03	-1.21	41217.000	2.5	575968.000	1.5
18.7005	9.04	-0.98	86408.000	2.5	621152.000	1.5
18.7019	10.03	-1.97	41262.000	1.5	575968.000	1.5
18.7026	9.03	-1.46	0.000	0.0	534686.000	1.0
18.7039	9.03	-2.69	25234.400	2.0	559881.000	1.0
18.7104	9.03	-0.99	225.200	1.0	534686.000	1.0
18.7197	12.02	-1.13	0.000	0.0	534197.700	1.0
18.7240	9.03	-0.76	612.200	2.0	534686.000	1.0
18.7713	10.04	-3.68	63899.000	0.0	596626.000	1.0
18.7916	9.03	-0.94	147841.800	3.0	679994.000	3.0
18.7933	9.03	-0.37	147888.900	2.0	679994.000	3.0
18.7985	9.03	-1.84	147841.800	3.0	679798.000	2.0
18.8002	9.03	-2.26	147888.900	2.0	679798.000	2.0
18.8002	9.03	-1.10	147888.900	2.0	679798.000	2.0
18.8295	9.03	-4.75	25234.400	2.0	556316.000	2.0
18.8389	9.03	-5.22	25234.400	2.0	556051.000	1.0
18.8530	12.02	-3.04	0.000	0.0	530420.600	1.0
18.8656	9.03	-0.13	147841.800	3.0	677906.000	4.0
18.8741	9.03	-1.19	147841.800	3.0	677667.000	3.0
18.8758	9.03	-3.78	147888.900	2.0	677667.000	3.0
18.8813	9.03	-2.73	147841.800	3.0	677667.000	3.0
18.8830	9.03	-4.68	147888.900	2.0	677667.000	3.0
18.8858	11.02	-1.61	0.000	1.5	529498.000	1.5
18.8870	11.02	-0.66	0.000	1.5	529465.000	2.5
18.9233	10.04	-0.06	270564.000	2.0	799013.000	1.0
18.9250	11.03	-2.90	66492.000	0.0	594893.000	1.0
18.9307	10.04	-0.16	270564.000	2.0	798806.000	2.0
18.9347	11.02	-0.88	1366.000	1.5	529498.000	1.5
18.9368	10.04	-0.31	270564.000	2.0	798635.000	3.0
18.9714	9.03	-4.96	147888.900	2.0	674997.000	2.0
18.9786	9.03	-4.81	147888.900	2.0	674998.000	3.0
18.9939	9.04	-0.47	347418.000	1.5	873904.000	1.5
18.9946	9.04	-1.17	347438.000	1.5	873904.000	1.5
18.9946	9.04	-0.21	347438.000	1.5	873904.000	1.5
19.0057	9.03	-4.34	25234.400	2.0	551366.000	3.0
19.0163	9.03	-5.07	25234.400	2.0	551098.000	2.0
19.0228	9.03	-6.25	25234.400	2.0	550918.000	1.0
19.0567	9.04	-1.22	0.000	1.5	524751.000	1.5
19.0660	10.03	-0.27	62423.000	1.5	586918.000	2.5
19.0742	10.03	-0.51	62417.000	1.5	586685.000	1.5
19.0744	10.03	-1.24	62423.000	1.5	586685.000	1.5
19.0837	9.04	-0.92	744.500	1.5	524751.000	1.5
19.1480	16.05	-1.43	0.000	1.5	522248.000	1.5
19.1559	8.03	-1.72	71439.800	1.5	593473.000	1.5
19.1560	16.05	-1.72	0.000	1.5	522030.000	1.5
19.1583	8.03	-1.03	71439.800	1.5	593406.000	1.5
19.1607	8.03	-1.03	71570.100	1.5	593473.000	1.5
19.1631	8.03	-1.52	71570.100	1.5	593406.000	1.5
19.1680	8.03	-0.99	71570.100	1.5	593273.000	2.5
19.1699	8.03	-0.99	71755.500	2.5	593406.000	1.5
19.1748	8.03	-0.62	71755.500	2.5	593273.000	2.5
19.1807	16.05	-1.66	105874.000	1.5	627231.000	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
19.1892	9.04	-0.36	197565.000	.5	718691.000	.5
19.1973	9.04	-0.05	197565.000	.5	718472.000	1.5
19.2138	8.03	-0.77	71439.800	.5	591899.000	.5
19.2138	8.03	-0.77	71439.800	.5	591899.000	1.5
19.2163	8.03	-0.37	71570.100	1.5	591962.000	2.5
19.2186	8.03	-1.47	71570.100	1.5	591899.000	.5
19.2186	8.03	-0.66	71570.100	1.5	591899.000	1.5
19.2200	8.03	-0.09	71755.500	2.5	592046.000	3.5
19.2231	8.03	-0.73	71755.500	2.5	591962.000	2.5
19.2255	8.03	-1.69	71755.500	2.5	591899.000	1.5
19.2273	16.05	-1.40	107137.000	1.5	627231.000	2.5
19.2273	16.05	-2.35	107137.000	1.5	627231.000	1.5
19.2751	8.04	-0.20	82121.000	0.0	600925.053	0.0
19.2800	8.04	.16	82258.000	0.0	600930.199	0.0
19.2800	8.04	-0.32	82258.000	0.0	600930.199	0.0
19.2906	8.04	.43	82564.000	0.0	600951.194	0.0
19.2910	8.04	-0.32	82564.000	0.0	600940.445	0.0
19.2920	8.04	-1.50	82564.000	0.0	600913.575	0.0
19.3306	10.03	-4.17	62423.000	1.5	579737.000	.5
19.3345	10.03	-0.59	62417.000	.5	579626.000	1.5
19.3348	10.03	-1.35	62423.000	1.5	579626.000	1.5
19.3442	10.03	-3.80	62423.000	1.5	579375.000	2.5
19.3467	10.03	-0.36	62423.000	1.5	579307.000	2.5
19.3862	9.03	-4.67	74194.000	2.0	590024.000	2.0
19.4032	11.02	-2.01	0.000	1.5	515379.000	1.5
19.4095	9.03	-4.13	74194.000	2.0	589406.000	3.0
19.4103	9.04	-1.71	197565.000	.5	712755.000	.5
19.4103	9.04	-1.34	197565.000	.5	712755.000	1.5
19.4166	11.02	-1.67	0.000	1.5	515023.000	.5
19.4177	9.03	-4.87	74194.000	2.0	589188.000	2.0
19.4306	11.02	-0.45	0.000	1.5	514652.000	2.5
19.4364	10.03	-3.98	62417.000	.5	576915.000	1.5
19.4366	10.03	-4.26	62423.000	1.5	576915.000	1.5
19.4366	10.03	-3.67	62423.000	1.5	576915.000	2.5
19.4548	11.02	-0.77	1366.000	.5	515379.000	1.5
19.4577	10.03	-0.96	62417.000	.5	576353.000	.5
19.4579	10.03	-1.27	62423.000	1.5	576353.000	.5
19.4682	11.02	-1.40	1366.000	.5	515023.000	.5
19.4723	10.03	-1.32	62417.000	.5	575968.000	1.5
19.4725	10.03	-0.56	62423.000	1.5	575968.000	1.5
19.5286	9.03	-0.12	74194.000	2.0	586263.000	2.0
19.5537	10.03	-5.25	0.000	1.5	511411.000	1.5
19.5537	10.03	-4.31	0.000	1.5	511411.000	2.5
19.5538	11.02	-1.37	0.000	1.5	511410.000	2.5
19.5794	9.03	-4.82	147888.900	2.0	658629.000	1.0
19.5799	9.03	-0.08	147901.600	1.0	658629.000	1.0
19.5860	8.03	-0.64	0.000	.5	510569.700	1.5
19.5906	10.03	-4.84	41262.000	1.5	551712.000	.5
19.6006	8.03	-0.39	385.900	1.5	510574.100	2.5
19.6008	8.03	-1.34	385.900	1.5	510569.700	1.5
19.6113	9.03	-6.22	147888.900	2.0	657800.000	2.0
19.6118	9.03	-0.19	147901.600	1.0	657800.000	2.0
19.6210	9.03	-6.01	147888.900	2.0	657546.000	3.0
19.6290	9.03	-4.65	25234.400	2.0	534686.000	1.0
19.6349	8.03	-0.46	126936.300	2.5	636233.000	3.5
19.6417	8.03	-1.76	126936.300	2.5	636058.000	2.5
19.6422	8.03	-0.61	126950.200	1.5	636058.000	2.5
19.6712	9.04	-0.77	276414.000	1.5	784771.000	1.5
19.6871	9.04	-0.93	276414.000	1.5	784361.000	2.5
19.6955	9.03	-1.88	53537.000	0.0	561267.000	1.0
19.6972	9.04	-1.24	276414.000	1.5	784100.000	.5
19.7297	9.03	-0.40	147888.900	2.0	654739.000	1.0
19.7428	9.03	-2.81	0.000	0.0	506514.000	1.0
19.7494	9.03	-3.34	53537.000	0.0	559881.000	1.0
19.7516	9.03	-3.66	225.200	1.0	506514.000	1.0
19.7619	9.04	-0.56	347418.000	.5	853442.000	.5
19.7627	9.04	-0.86	347438.000	1.5	853442.000	.5
19.7667	9.03	-4.19	612.200	2.0	506514.000	1.0
19.7778	9.04	-0.86	347418.000	.5	853035.000	1.5
19.7786	9.04	-0.16	347438.000	1.5	853035.000	1.5
19.8095	9.03	-3.33	612.200	2.0	505421.400	3.0
19.8115	9.03	-1.79	175237.000	2.0	679994.000	3.0
19.8192	9.03	-1.89	175237.000	2.0	679798.000	1.0
19.8192	9.03	-1.23	175237.000	2.0	679798.000	2.0
19.8203	9.03	-1.01	175264.100	0.0	679798.000	1.0
19.8472	9.04	-1.69	307226.000	2.5	811075.000	1.5
19.8472	9.04	-0.55	307226.000	2.5	811075.000	2.5
19.8488	9.04	-1.08	214881.000	.5	718691.000	.5
19.8491	9.04	-0.74	307273.000	1.5	811075.000	1.5
19.8491	9.04	-1.69	307273.000	1.5	811075.000	2.5
19.8574	9.04	-1.50	214881.000	.5	718472.000	1.5
19.8672	9.04	-1.41	215348.000	1.5	718691.000	.5
19.8758	9.04	-0.72	215348.000	1.5	718472.000	1.5
19.8999	9.03	-5.41	53537.000	0.0	556051.000	1.0
19.9005	9.03	.18	147841.800	3.0	650342.000	3.0
19.9024	9.03	-0.19	147888.900	2.0	650342.000	3.0
19.9033	9.03	-0.31	175237.000	2.0	677667.000	3.0
19.9063	9.03	-0.73	147841.800	3.0	650196.000	2.0
19.9081	9.03	-2.20	147888.900	2.0	650196.000	1.0
19.9081	9.03	-0.99	147888.900	2.0	650196.000	2.0
19.9112	9.03	-1.21	175237.000	2.0	677467.000	2.0
19.9282	3.01	-0.34	0.000	0.0	501801.467	0.0
19.9311	9.04	-3.75	197565.000	.5	699293.000	1.5
19.9607	9.03	-0.35	147841.800	3.0	648827.000	2.0
19.9625	9.03	-0.12	147888.900	2.0	648827.000	2.0
19.9721	9.03	-4.33	238297.200	1.0	738996.000	2.0
19.9759	9.03	-0.96	0.000	0.0	506062.100	1.0
19.9804	9.03	-0.79	225.200	1.0	500716.500	0.0
19.9849	9.03	-0.78	225.200	1.0	506062.100	1.0
19.9934	9.03	-1.07	225.200	1.0	500390.100	2.0
19.9996	9.04	-4.87	197565.000	.5	697574.000	.5
19.9996	9.04	-4.87	197565.000	.5	697574.000	1.5
20.0004	9.03	-0.67	612.200	2.0	506062.100	1.0
20.0089	9.03	-0.13	612.200	2.0	500390.100	2.0
20.0387	8.03	-4.85	71755.500	2.5	570791.000	3.5
20.0854	9.04	-0.83	214881.000	.5	712755.000	.5
20.0854	9.04	-1.15	214881.000	.5	712755.000	1.5
20.0904	11.02	-0.77	0.000	1.5	497751.200	.5
20.0919	8.03	-1.68	71570.100	1.5	569288.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
20.0966	8.03	-1.70	71439.800	.5	569036.000	1.5
20.0994	8.03	-1.32	71755.500	2.5	569283.000	2.5
20.1008	9.04	-4.30	215348.000	1.5	712840.000	2.5
20.1013	9.03	-2.24	0.000	0.0	497481.400	1.0
20.1019	8.03	-2.20	71570.100	1.5	569036.000	1.5
20.1021	8.03	-2.40	71439.800	.5	568901.000	.5
20.1043	9.04	-1.14	215348.000	1.5	712755.000	.5
20.1043	9.04	-1.44	215348.000	1.5	712755.000	1.5
20.1053	9.03	-5.05	53537.000	0.0	550918.000	1.0
20.1065	9.03	.11	225.200	1.0	497575.600	2.0
20.1073	8.03	-1.71	71570.100	1.5	568901.000	.5
20.1094	8.03	-1.67	71755.500	2.5	569036.000	1.5
20.1104	9.03	-4.46	225.200	1.0	497481.400	1.0
20.1160	9.03	.33	612.200	2.0	497729.100	3.0
20.1222	9.03	-4.59	612.200	2.0	497575.600	2.0
20.1260	9.03	-1.87	612.200	2.0	497481.400	1.0
20.1456	11.02	-1.21	1366.000	.5	497751.200	.5
20.1458	9.03	-2.17	147841.800	3.0	644224.000	2.0
20.1458	9.03	-4.63	147841.800	3.0	644224.000	3.0
20.1458	9.03	.43	147841.800	3.0	644224.000	4.0
20.1477	9.03	-4.12	147888.900	2.0	644224.000	2.0
20.1477	9.03	-3.22	147888.900	2.0	644224.000	3.0
20.1482	9.03	-4.63	147901.600	1.0	644224.000	2.0
20.1748	11.02	-3.36	0.000	1.5	495668.600	2.5
20.2184	11.02	-4.34	0.000	1.5	494599.000	2.5
20.2437	9.03	-4.95	74194.000	2.0	568175.000	3.0
20.2489	11.02	-1.01	0.000	1.5	493853.200	1.5
20.2721	11.02	-4.35	0.000	1.5	493289.300	1.5
20.2761	11.02	-1.08	0.000	1.5	493191.300	.5
20.2988	9.03	-3.11	225.200	1.0	492864.000	2.0
20.3051	11.02	-4.62	1366.000	.5	493853.200	1.5
20.3148	9.03	-3.04	612.200	2.0	492864.000	2.0
20.3150	9.03	-2.00	612.200	2.0	492858.800	3.0
20.3182	9.03	-2.26	225.200	1.0	492395.100	2.0
20.3284	11.02	-4.86	1366.000	.5	493289.300	1.5
20.3324	11.02	-4.66	1366.000	.5	493191.300	.5
20.3342	9.03	-3.27	612.200	2.0	492395.100	2.0
20.3665	16.05	-1.45	105874.000	.5	596877.000	1.5
20.3960	9.04	-4.66	307226.000	2.5	797519.000	1.5
20.3979	9.04	-1.61	307273.000	1.5	797519.000	1.5
20.4023	9.02	-5.92	0.000	1.5	490140.000	1.5
20.4023	9.02	-4.96	0.000	1.5	490140.000	2.5
20.4171	9.04	-4.91	307273.000	1.5	797059.000	.5
20.4190	16.05	-1.19	107137.000	1.5	596877.000	2.5
20.4190	16.05	-2.14	107137.000	1.5	596877.000	1.5
20.4376	10.03	-1.26	62417.000	.5	551712.000	.5
20.4378	10.03	-4.97	62423.000	1.5	551712.000	.5
20.4534	10.03	-4.05	0.000	1.5	488917.000	1.5
20.4828	10.03	-4.67	0.000	1.5	488215.000	.5
20.4996	8.03	-2.26	180724.200	1.5	668538.000	2.5
20.5554	9.04	-4.61	152876.000	2.5	639365.000	1.5
20.5564	9.04	-1.58	152898.000	1.5	639365.000	1.5
20.5779	9.04	-4.86	152898.000	1.5	638856.000	.5
20.5837	8.03	-1.87	0.000	.5	485821.700	.5
20.6000	8.03	-1.57	385.900	1.5	485821.700	.5
20.6436	9.04	-4.37	214881.000	.5	699293.000	1.5
20.6594	9.04	-4.12	215348.000	1.5	699389.000	2.5
20.6635	9.04	-1.06	215348.000	1.5	699293.000	1.5
20.6874	9.03	-3.46	175242.000	1.0	658629.000	1.0
20.7229	9.03	-3.57	175242.000	1.0	657800.000	2.0
20.7639	9.03	-4.60	257390.000	1.0	738996.000	2.0
20.7779	9.03	-1.53	25234.400	2.0	506514.000	1.0
20.7836	9.03	-5.45	53537.000	0.0	534686.000	1.0
20.8252	9.03	.41	25234.400	2.0	505421.400	3.0
20.8485	10.03	-4.73	0.000	1.5	479651.600	2.5
20.8550	9.03	-3.91	175237.000	2.0	654739.000	1.0
20.8561	9.03	-1.12	175264.100	0.0	654739.000	1.0
20.8734	10.03	-4.90	0.000	1.5	479079.000	1.5
20.8899	10.03	-1.20	0.000	1.5	478701.000	.5
20.9270	7.04	-4.50	0.000	0.0	477851.579	0.0
20.9303	7.04	-4.80	0.000	0.0	477776.238	0.0
21.0004	15.04	-2.27	0.000	.5	476181.000	1.5
21.0004	15.04	-2.57	0.000	.5	476181.000	.5
21.0363	9.03	-6.57	25234.400	2.0	500602.100	1.0
21.0457	9.03	-2.87	25234.400	2.0	500390.100	2.0
21.0480	9.03	-4.78	175237.000	2.0	650342.000	3.0
21.0544	9.03	-4.76	175237.000	2.0	650196.000	1.0
21.0544	9.03	-4.10	175237.000	2.0	650196.000	2.0
21.0557	9.03	-4.84	175264.100	0.0	650196.000	1.0
21.1153	9.03	-1.18	175237.000	2.0	648827.000	2.0
21.1643	9.03	-3.23	25234.400	2.0	497729.100	3.0
21.1711	9.03	-3.35	25234.400	2.0	497575.600	2.0
21.1752	11.02	-1.84	0.000	1.5	472250.600	.5
21.1754	9.03	-4.04	25234.400	2.0	497481.400	1.0
21.2113	11.02	-1.16	0.000	1.5	471446.600	1.5
21.2351	8.03	-2.28	126950.200	1.5	597869.000	.5
21.2366	11.02	-1.55	1366.000	.5	472250.600	.5
21.2412	8.03	-2.02	126936.300	2.5	597720.000	1.5
21.2418	8.03	-2.96	126950.200	1.5	597720.000	1.5
21.2644	9.02	-4.70	0.000	1.5	470269.070	.5
21.2678	10.03	-1.69	41217.000	2.5	511411.000	1.5
21.2678	10.03	-4.48	41217.000	2.5	511411.000	2.5
21.2699	10.03	-4.67	41262.000	1.5	511411.000	1.5
21.2699	10.03	-1.63	41262.000	1.5	511411.000	2.5
21.2729	11.02	-1.88	1366.000	.5	471446.600	1.5
21.2975	8.03	-4.09	126936.300	2.5	596475.000	3.5
21.3035	9.02	-6.00	0.000	1.5	469407.290	.5
21.3057	8.03	-1.39	126936.300	2.5	596295.000	2.5
21.3063	8.03	-4.24	126950.200	1.5	596295.000	2.5
21.3226	9.03	-4.65	175237.000	2.0	644224.000	2.0
21.3226	9.03	.25	175237.000	2.0	644224.000	3.0
21.3243	11.02	-4.24	0.000	1.5	468949.500	.5
21.3434	11.02	-2.87	0.000	1.5	468528.500	1.5
21.3699	16.05	-1.93	105874.000	.5	573823.000	.5
21.3754	9.02	-4.39	0.000	1.5	467827.160	1.5
21.3779	11.02	-5.07	0.000	1.5	467773.800	2.5
21.3781	9.02	-5.10	0.000	1.5	467769.110	.5
21.3844	9.03	-4.27	25234.400	2.0	492864.000	2.0
21.3847	9.03	-2.72	25234.400	2.0	492858.800	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
21.3866	11.02	-3.80	1366.000	.5	468949.500	.5
21.4058	11.02	-3.64	1366.000	.5	468528.500	1.5
21.4059	9.03	-1.26	25234.400	2.0	492395.100	2.0
21.4141	9.02	-4.37	0.000	1.5	466982.860	2.5
21.4143	9.02	-5.31	0.000	1.5	466978.150	1.5
21.4237	8.03	-4.83	126936.300	2.5	593708.000	2.5
21.4237	11.02	-1.96	0.000	1.5	466773.000	1.5
21.4244	8.03	-1.97	126950.200	1.5	593708.000	2.5
21.4275	8.03	-1.98	126936.300	2.5	593627.000	1.5
21.4277	16.05	-1.62	107137.000	1.5	573823.000	.5
21.4281	8.03	-1.03	126950.200	1.5	593627.000	1.5
21.4465	9.02	-2.75	0.000	1.5	466275.500	2.5
21.4476	9.02	-3.38	0.000	1.5	466253.240	1.5
21.4598	11.02	-1.38	0.000	1.5	465988.000	.5
21.4699	11.02	-2.82	0.000	1.5	465768.800	2.5
21.4804	9.02	-1.19	0.000	1.5	465541.000	.5
21.4804	9.02	-4.97	0.000	1.5	465541.000	1.5
21.4862	9.02	-1.01	0.000	1.5	465414.140	2.5
21.4866	11.02	-4.42	1366.000	.5	466773.000	1.5
21.5034	8.04	-1.31	82121.000	0.0	547163.737	0.0
21.5041	11.02	-4.55	0.000	1.5	465027.900	1.5
21.5082	9.02	-8.40	0.000	1.5	464939.500	2.5
21.5104	8.04	-4.83	82258.000	0.0	547149.401	0.0
21.5229	11.02	-1.11	1366.000	.5	465988.000	.5
21.5245	8.04	-4.61	82564.000	0.0	547150.866	0.0
21.5335	11.02	-4.04	0.000	1.5	464392.100	2.5
21.5368	9.02	-3.40	0.000	1.5	464321.840	2.5
21.5413	9.02	-4.05	0.000	1.5	464223.930	1.5
21.5522	21.03	-1.39	0.000	0.0	463990.000	1.0
21.5674	11.02	-4.92	1366.000	.5	465027.900	1.5
21.5677	9.04	-1.13	347418.000	.5	811075.000	1.5
21.5686	9.04	-1.83	347438.000	1.5	811075.000	1.5
21.5686	9.04	-4.88	347438.000	1.5	811075.000	2.5
21.5690	11.02	-1.95	0.000	1.5	463628.100	2.5
21.5767	11.02	-2.87	0.000	1.5	463462.200	1.5
21.5863	11.02	-2.13	0.000	1.5	463257.400	2.5
21.6000	11.02	-2.78	0.000	1.5	462963.600	1.5
21.6267	11.02	-3.47	0.000	1.5	462391.200	.5
21.6405	11.02	-2.60	1366.000	.5	463462.200	1.5
21.6639	11.02	-5.81	1366.000	.5	462963.600	1.5
21.6908	11.02	-3.95	1366.000	.5	462391.200	.5
21.7033	11.02	-3.88	0.000	1.5	460759.300	.5
21.7105	11.02	-3.41	0.000	1.5	460605.600	1.5
21.7188	21.03	-1.50	0.000	0.0	460430.000	1.0
21.7193	11.02	-3.84	0.000	1.5	460421.000	2.5
21.7220	15.04	-2.09	0.000	.5	460363.000	1.5
21.7220	15.04	-2.39	0.000	.5	460363.000	.5
21.7678	11.02	-3.52	1366.000	.5	460759.300	.5
21.7751	11.02	-4.28	1366.000	.5	460605.600	1.5
21.9273	9.02	-2.05	34087.400	2.5	490140.000	1.5
21.9273	9.02	-4.92	34087.400	2.5	490140.000	2.5
21.9290	9.02	-1.11	34123.200	1.5	490140.000	1.5
21.9290	9.02	-2.04	34123.200	1.5	490140.000	2.5
21.9584	9.02	-4.66	34087.400	2.5	489494.530	3.5
21.9874	8.03	-1.79	126936.300	2.5	581743.000	1.5
21.9880	8.03	-2.81	126950.200	1.5	581743.000	1.5
21.9891	8.03	-2.03	126950.200	1.5	581721.000	.5
22.0352	8.04	-4.22	158798.000	0.0	612617.344	0.0
22.0676	9.02	-1.89	0.000	1.5	453152.390	2.5
22.0762	9.03	-4.20	53537.000	0.0	506514.000	1.0
22.0840	9.02	-2.04	0.000	1.5	452816.600	1.5
22.0956	9.02	-2.33	0.000	1.5	452577.900	.5
22.1317	13.05	-2.65	0.000	2.0	451840.000	1.0
22.2172	9.04	-1.48	347418.000	.5	797519.000	1.5
22.2182	9.04	-4.78	347438.000	1.5	797519.000	1.5
22.2400	9.04	-1.17	347418.000	.5	797059.000	.5
22.2410	9.04	-1.47	347438.000	1.5	797059.000	.5
22.2666	13.05	-4.37	2736.000	1.0	451840.000	1.0
22.2720	10.03	-1.15	62417.000	.5	511411.000	1.5
22.2723	10.03	-1.77	62423.000	1.5	511411.000	1.5
22.2723	10.03	-4.88	62423.000	1.5	511411.000	2.5
22.2758	8.03	-4.61	126936.300	2.5	575853.000	2.5
22.2765	8.03	-1.79	126950.200	1.5	575853.000	2.5
22.2775	8.03	-1.76	126936.300	2.5	575819.000	1.5
22.2782	8.03	-4.80	126950.200	1.5	575819.000	1.5
22.2791	6.03	-1.28	0.000	0.0	448851.165	0.0
22.3210	13.05	-3.55	3831.000	0.0	451840.000	1.0
22.3364	10.03	-4.56	41217.000	2.5	488917.000	1.5
22.3386	10.03	-1.57	41262.000	1.5	488917.000	1.5
22.3681	9.03	-3.26	53537.000	0.0	500602.100	1.0
22.3728	8.03	-1.29	126936.300	2.5	573907.000	1.5
22.3735	8.03	-2.25	126950.200	1.5	573907.000	1.5
22.3737	10.03	-4.81	41262.000	1.5	488215.000	.5
22.3841	8.03	-1.54	126950.200	1.5	573696.000	.5
22.4171	9.03	-4.64	228908.000	2.0	674997.000	1.0
22.4171	9.03	-4.42	228908.000	2.0	674997.000	2.0
22.4271	9.03	-4.27	228908.000	2.0	674798.000	3.0
22.4716	9.02	-2.96	0.000	1.5	445006.130	2.5
22.4741	9.02	-3.75	0.000	1.5	444957.110	1.5
22.5025	7.03	-3.31	67344.000	0.0	511739.067	0.0
22.5098	7.03	-4.93	67136.000	0.0	511386.948	0.0
22.5130	7.03	-1.06	67200.000	0.0	511387.803	0.0
22.5136	7.03	-4.58	67200.000	0.0	511375.965	0.0
22.5200	7.03	-1.06	67344.000	0.0	511393.734	0.0
22.5200	7.03	-2.23	67344.000	0.0	511393.734	0.0
22.5253	9.03	-3.03	53537.000	0.0	497481.400	1.0
22.5299	8.03	.17	126936.300	2.5	570791.000	3.5
22.5337	22.04	-4.44	0.000	0.0	443780.000	1.0
22.5845	8.03	-5.00	71439.800	.5	514220.400	1.5
22.5862	9.02	-4.22	0.000	1.5	442748.850	2.5
22.5889	9.02	-5.18	0.000	1.5	442694.580	1.5
22.6038	8.02	-1.23	306.900	2.0	442710.000	3.0
22.6055	9.02	-4.87	0.000	1.5	442370.280	.5
22.6060	9.03	-4.49	147901.600	1.0	590262.000	0.0
22.6085	9.03	-4.78	147888.900	2.0	590201.000	1.0
22.6091	9.03	-4.10	147901.600	1.0	590201.000	1.0
22.6094	9.02	-4.65	0.000	1.5	442294.310	1.5
22.6102	9.02	-1.85	0.000	1.5	442278.930	2.5
22.6151	9.03	-1.49	147841.800	3.0	590024.000	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
22.6169	9.02	-6.69	0.000	1.5	442147.190	2.5	23.1031	8.03	-1.18	71439.800	.5	504282.300	.5
22.6175	9.03	-6.30	147888.900	2.0	590024.000	2.0	23.1070	8.03	-6.48	71439.800	.5	504208.900	1.5
22.6182	9.03	-3.85	147901.600	1.0	590024.000	2.0	23.1100	8.03	-6.48	71570.100	1.5	504282.300	.5
22.6347	9.04	-1.13	197565.000	.5	639365.000	1.5	23.1140	8.03	-9.98	71570.100	1.5	504208.900	1.5
22.6468	9.03	-3.36	147841.800	3.0	589406.000	3.0	23.1200	8.03	-4.45	71570.100	1.5	504095.700	2.5
22.6492	9.03	.23	147888.900	2.0	589406.000	3.0	23.1239	8.03	-4.45	71555.500	2.5	504208.900	1.5
22.6500	9.03	-1.19	238297.200	1.0	679798.000	1.0	23.1299	8.03	-6.08	71555.500	2.5	504095.700	2.5
22.6500	9.03	-6.72	238297.200	1.0	679798.000	2.0	23.1381	9.02	-1.34	34087.400	2.5	466275.500	2.5
22.6559	9.02	-1.18	0.000	1.5	441385.880	1.5	23.1393	9.02	-2.45	34087.400	2.5	466253.240	1.5
22.6579	9.03	-1.26	147841.800	3.0	589188.000	2.0	23.1400	9.02	-3.95	34123.200	1.5	466275.500	2.5
22.6595	9.02	-2.07	0.000	1.5	441315.800	.5	23.1412	9.02	-1.64	34123.200	1.5	466253.240	1.5
22.6604	9.03	-6.50	147888.900	2.0	589188.000	2.0	23.1426	9.02	-2.46	34087.400	2.5	466190.970	3.5
22.6608	9.04	-1.40	197565.000	.5	638856.000	.5	23.1454	2.01	-2.20	0.000	0.0	432051.293	0.0
22.6615	9.02	-6.66	0.000	1.5	441276.720	2.5	23.1734	12.02	-6.76	0.000	0.0	431530.000	1.0
22.6644	9.03	-1.67	147888.900	2.0	589109.000	1.0	23.1775	9.02	-5.82	34087.400	2.5	465541.000	1.5
22.6671	9.02	-3.61	0.000	1.5	441167.400	.5	23.1794	9.02	-5.60	34123.200	1.5	465541.000	.5
22.6676	9.02	-3.09	0.000	1.5	441158.600	1.5	23.1794	9.02	-4.71	34123.200	1.5	465541.000	1.5
22.6846	9.02	-6.27	0.000	1.5	440828.550	1.5	23.1843	9.02	-4.00	34087.400	2.5	465414.140	2.5
22.6847	9.02	-5.33	0.000	1.5	440825.130	2.5	23.1862	9.02	-2.11	34123.200	1.5	465414.140	2.5
22.6945	9.03	.41	147841.800	3.0	588478.000	4.0	23.2098	9.02	-1.52	34087.400	2.5	464939.500	2.5
22.7076	9.03	-6.65	147841.800	3.0	588223.000	3.0	23.2108	9.02	-2.27	34087.400	2.5	464921.740	3.5
22.7100	9.03	-3.24	147888.900	2.0	588223.000	3.0	23.2117	9.02	-6.41	34123.200	1.5	464939.500	2.5
22.7168	9.02	-4.02	0.000	1.5	440202.480	2.5	23.2340	9.02	-2.54	34087.400	2.5	464491.890	3.5
22.7180	9.03	-2.19	147841.800	3.0	588021.000	2.0	23.2431	9.02	-3.60	34087.400	2.5	464321.840	2.5
22.7197	16.05	-1.19	105874.000	.5	546021.000	1.5	23.2451	9.02	-2.81	34123.200	1.5	464321.840	2.5
22.7205	9.03	-4.14	147888.900	2.0	588021.000	2.0	23.2484	9.02	-5.34	34087.400	2.5	464223.930	1.5
22.7211	9.03	-4.65	147901.600	1.0	588021.000	2.0	23.2504	9.02	-3.76	34123.200	1.5	464223.930	1.5
22.7237	9.02	-4.57	0.000	1.5	440069.510	1.5	23.2584	2.01	-2.02	0.000	0.0	429952.189	0.0
22.7239	10.02	-4.56	0.000	2.0	440064.900	1.0	23.2711	8.02	-4.88	306.900	2.0	430025.000	1.0
22.7424	10.02	-6.63	0.000	2.0	439707.810	1.0	23.2959	8.03	-4.94	164366.400	.5	593627.000	1.5
22.7487	10.02	-6.20	0.000	2.0	439586.000	2.0	23.3451	8.03	-6.20	71439.800	.5	499795.700	1.5
22.7572	10.02	-6.69	642.900	1.0	440064.900	1.0	23.3466	8.03	-6.20	71439.800	.5	499767.200	.5
22.7675	8.03	-4.56	71755.500	2.5	510977.200	3.5	23.3496	8.03	-6.20	71570.100	1.5	499842.600	2.5
22.7702	9.03	-4.28	238297.200	1.0	677467.000	2.0	23.3522	8.03	-6.09	71570.100	1.5	499795.700	1.5
22.7715	10.02	-1.12	920.400	0.0	440064.900	1.0	23.3537	8.03	-6.90	71570.100	1.5	499767.200	.5
22.7730	10.02	-6.80	642.900	1.0	439760.350	0.0	23.3562	8.03	.48	71755.500	2.5	499907.000	3.5
22.7757	10.02	-1.00	642.900	1.0	439707.810	1.0	23.3597	8.03	-1.16	71755.500	2.5	499842.600	2.5
22.7820	10.02	-6.70	642.900	1.0	439586.000	2.0	23.3623	8.03	-1.12	71755.500	2.5	499795.700	1.5
22.7845	16.05	-6.92	107137.000	1.5	546032.000	2.5	23.4174	12.05	-4.64	0.000	1.5	427033.000	.5
22.7851	16.05	-1.88	107137.000	1.5	546021.000	1.5	23.4264	12.02	-2.02	0.000	0.0	426868.100	1.0
22.7901	10.02	-6.84	920.400	0.0	439707.810	1.0	23.4347	2.01	-1.81	0.000	0.0	426717.645	0.0
22.8009	9.02	-1.60	51560.600	.5	490140.000	1.5	23.4467	10.03	-1.44	62417.000	.5	488917.000	1.5
22.8009	9.02	-2.31	51561.400	1.5	490140.000	1.5	23.4470	10.03	-6.77	62423.000	1.5	488917.000	1.5
22.8009	9.02	-1.33	51561.400	1.5	490140.000	2.5	23.4725	8.02	-4.52	306.900	2.0	426338.000	2.0
22.8085	10.03	-4.12	41217.000	2.5	479651.000	2.5	23.4853	10.03	-1.16	62417.000	.5	488215.000	.5
22.8091	2.01	-3.94	0.000	0.0	438421.507	0.0	23.4856	10.03	-1.45	62423.000	1.5	488215.000	.5
22.8108	10.03	-5.26	41262.000	1.5	479651.000	2.5	23.5252	12.05	-3.90	0.000	1.5	425076.000	1.5
22.8109	2.01	-3.89	0.000	0.0	438386.912	0.0	23.5465	8.02	-4.33	306.900	2.0	424998.000	3.0
22.8116	9.03	-4.62	147888.900	2.0	586263.000	2.0	23.5580	9.04	-1.81	214881.000	.5	639365.000	1.5
22.8122	9.03	-6.53	147901.600	1.0	586263.000	2.0	23.5840	9.04	-1.14	215348.000	1.5	639365.000	1.5
22.8129	2.01	-3.84	0.000	0.0	438348.478	0.0	23.5863	9.04	-1.56	214881.000	.5	638856.000	.5
22.8151	2.01	-3.80	0.000	0.0	438306.209	0.0	23.6068	9.03	-4.04	0.000	0.0	423606.400	1.0
22.8175	2.01	-3.75	0.000	0.0	438260.107	0.0	23.6123	9.04	-1.85	215348.000	1.5	638856.000	.5
22.8203	2.01	-3.70	0.000	0.0	438206.334	0.0	23.6194	9.03	-3.92	225.200	1.0	423606.400	1.0
22.8234	2.01	-3.64	0.000	0.0	438146.814	0.0	23.6410	9.03	-4.25	612.200	2.0	423606.400	1.0
22.8269	2.01	-3.59	0.000	0.0	438079.634	0.0	23.6435	17.04	-1.48	0.000	.5	422949.000	1.5
22.8309	2.01	-3.53	0.000	0.0	438002.882	0.0	23.6591	8.02	-5.26	306.900	2.0	422977.000	3.0
22.8356	2.01	-3.47	0.000	0.0	437912.733	0.0	23.6722	8.02	-5.54	20274.000	2.0	442710.000	3.0
22.8382	10.03	-3.79	41217.000	2.5	479079.000	1.5	23.6738	9.03	-1.91	257390.000	1.0	679798.000	2.0
22.8406	10.03	-4.29	41262.000	1.5	479079.000	1.5	23.6738	9.03	-1.49	257390.000	1.0	679798.000	1.0
22.8409	2.01	-3.41	0.000	0.0	437811.120	0.0	23.7231	17.04	-1.22	1492.000	1.5	423022.000	2.5
22.8471	2.01	-3.34	0.000	0.0	437692.311	0.0	23.7272	17.04	-2.17	1492.000	1.5	422949.000	1.5
22.8543	2.01	-3.27	0.000	0.0	437554.421	0.0	23.7285	9.03	-4.89	228908.000	2.0	650342.000	3.0
22.8565	21.04	-1.06	0.000	1.5	437512.000	.5	23.7331	2.01	-1.55	0.000	0.0	421352.457	0.0
22.8603	10.03	-4.30	41262.000	1.5	478701.000	.5	23.7527	9.02	-4.22	0.000	1.5	421005.360	.5
22.8629	2.01	-3.19	0.000	0.0	437389.832	0.0	23.7906	9.03	-6.26	147841.800	3.0	568175.000	3.0
22.8731	2.01	-3.11	0.000	0.0	437194.783	0.0	23.7933	9.03	-5.59	147888.900	2.0	568175.000	3.0
22.8825	8.02	-2.09	0.000	0.0	437015.000	1.0	23.7995	9.03	-1.17	147841.800	3.0	568019.000	2.0
22.8854	10.02	-2.03	0.000	2.0	436959.490	1.0	23.8022	9.03	-1.29	147888.900	2.0	568019.000	2.0
22.8855	2.01	-3.03	0.000	0.0	436957.899	0.0	23.8052	9.03	-6.55	257390.000	1.0	677467.000	2.0
22.8878	10.02	-6.95	0.000	2.0	436914.390	2.0	23.8089	9.03	-2.44	147888.900	2.0	567900.000	1.0
22.8885	8.02	-1.62	113.900	1.0	437015.000	1.0	23.8089	9.02	-1.72	34087.400	2.5	454097.660	1.5
22.8896	22.04	-1.57	0.000	0.0	436880.000	1.0	23.8110	9.02	-2.67	34123.200	1.5	454097.660	1.5
22.8914	10.02	-6.15	0.000	2.0	436844.630	3.0	23.8141	9.03	-4.82	228908.000	2.0	648827.000	2.0
22.8986	8.02	-1.40	306.900	2.0	437015.000	1.0	23.8338	9.02	-1.93	34123.200	1.5	453696.100	.5
22.9006	2.01	-2.94	0.000	0.0	436669.782	0.0	23.8360	8.03	-6.07	0.000	.5	419533.900	1.5
22.9037	10.02	-4.19	0.000	2.0	436611.560	3.0	23.8570	8.03	.18	385.900	1.5	419550.600	2.5
22.9191	10.02	-6.92	642.900	1.0	436959.490	1.0	23.8579	8.03	-6.77	385.900	1.5	419533.900	1.5
22.9194	2.01	-2.84	0.000	0.0	436311.596	0.0	23.8830	9.02	-1.73	51560.600	.5	470269.070	.5
22.9215	10.02	-6.43	642.900	1.0	436914.390	2.0	23.8830	9.02	-1.40	51561.400	1.5	470269.070	.5
22.9281	9.02	-6.36	34123.200	1.5	470269.070	.5	23.9092	9.02	-3.79				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
24.0278	9.02	-3.74	0.000	1.5	416185.420	2.5	24.7816	8.02	-5.41	0.000	0.0	403526.000	1.0
24.0287	9.02	-4.67	0.000	1.5	416168.300	1.5	24.8004	8.02	-6.69	306.900	2.0	403526.000	1.0
24.0369	9.03	-1.09	612.200	2.0	416639.800	1.0	24.8098	8.02	-4.76	306.900	2.0	403374.000	3.0
24.0546	9.02	-1.44	0.000	1.5	415720.860	2.5	24.8322	8.02	-0.99	20274.000	2.0	422977.000	3.0
24.0719	9.02	-0.97	51561.400	1.5	466982.860	2.5	24.8424	9.02	-2.63	51560.600	1.5	454097.660	1.5
24.0722	9.02	-1.24	51560.600	1.5	466978.150	1.5	24.8425	9.02	-1.93	51561.400	1.5	454097.660	1.5
24.0722	9.02	-1.96	51561.400	1.5	466978.150	1.5	24.8459	8.04	-0.90	158798.000	0.0	561278.892	0.0
24.0735	9.02	-1.61	0.000	1.5	415394.510	1.5	24.8618	8.02	-0.59	306.900	2.0	402530.000	3.0
24.0857	9.02	-1.90	0.000	1.5	415184.120	1.5	24.8672	9.02	-2.30	51560.600	1.5	453696.100	1.5
24.0952	9.03	-1.22	175242.000	1.0	590262.000	0.0	24.8673	9.02	-2.60	51561.400	1.5	453696.100	1.5
24.0985	9.03	-1.84	175237.000	2.0	590201.000	1.0	24.8933	12.05	-5.62	0.000	1.5	401714.000	1.5
24.0988	9.03	-0.74	175242.000	1.0	590201.000	1.0	24.8991	16.05	-1.02	0.000	1.5	401621.000	1.5
24.1000	9.03	-0.91	175264.100	0.0	590201.000	1.0	24.9078	8.02	-5.45	306.900	2.0	401787.000	2.0
24.1037	8.02	-0.85	306.900	2.0	415181.000	3.0	24.9126	14.05	-0.66	5097.000	1.5	406500.000	1.5
24.1088	9.03	-2.13	175237.000	2.0	590024.000	2.0	24.9214	8.03	-0.77	180480.800	1.5	581743.000	1.5
24.1091	9.03	-0.53	175242.000	1.0	590024.000	2.0	24.9227	8.03	-0.49	180480.800	1.5	581721.000	1.5
24.1130	9.02	-0.91	51561.400	1.5	466275.500	2.5	24.9228	9.03	-4.92	257390.000	1.0	58629.000	1.0
24.1142	9.02	-1.19	51560.600	1.5	466253.240	1.5	24.9275	16.05	-1.30	0.000	1.5	401164.000	1.5
24.1143	9.02	-1.69	51561.400	1.5	466253.240	1.5	24.9365	8.03	-0.09	180724.200	1.5	581743.000	1.5
24.1331	8.02	-5.72	306.900	2.0	416675.000	2.0	24.9379	8.03	-0.79	180724.200	1.5	581721.000	1.5
24.1415	10.02	-6.30	25840.800	2.0	440064.900	1.0	25.0512	11.02	-1.65	0.000	1.5	399182.700	1.5
24.1447	9.03	-1.21	175237.000	2.0	589406.000	3.0	25.0514	11.02	-0.61	0.000	1.5	399179.400	2.5
24.1557	9.02	-0.03	51560.600	1.5	465541.000	1.5	25.0654	10.02	-5.52	0.000	2.0	398955.750	1.0
24.1558	9.02	-0.82	51561.400	1.5	465541.000	1.5	25.0657	10.02	-5.07	0.000	2.0	398952.340	2.0
24.1574	9.03	-0.65	175237.000	2.0	589188.000	2.0	25.0659	10.02	-3.59	0.000	2.0	398948.510	3.0
24.1577	9.03	-0.74	175242.000	1.0	589188.000	2.0	25.0974	21.04	-0.89	0.000	1.5	398447.000	1.5
24.1621	9.03	-1.31	175237.000	2.0	589109.000	1.0	25.1022	9.03	-0.51	25234.400	2.0	423606.400	1.0
24.1624	10.02	-2.40	25840.800	2.0	439707.810	1.0	25.1059	10.02	-5.43	642.900	1.0	398955.750	1.0
24.1632	9.02	-2.99	51561.400	1.5	465414.140	2.5	25.1061	10.02	-3.80	642.900	1.0	398952.340	2.0
24.1636	9.03	-0.42	175264.100	0.0	589109.000	1.0	25.1095	8.03	-0.93	255155.900	1.5	653411.000	1.5
24.1695	10.02	-2.72	25840.800	2.0	439586.000	2.0	25.1106	16.05	-1.50	105874.000	1.5	504112.000	1.5
24.1909	9.02	-0.99	51561.400	1.5	464939.500	2.5	25.1114	8.03	-0.62	255184.900	1.5	653411.000	1.5
24.2016	9.02	-7.68	0.000	1.5	413195.000	2.5	25.1123	10.02	-0.05	0.000	2.0	398210.740	3.0
24.2045	8.03	-1.05	180480.800	1.5	593627.000	1.5	25.1132	10.02	-0.80	0.000	2.0	398196.830	2.0
24.2139	9.03	0.23	175237.000	2.0	588223.000	3.0	25.1135	10.02	-1.98	0.000	2.0	398192.700	1.0
24.2140	8.03	-0.79	180724.200	1.5	593708.000	2.5	25.1148	8.03	-0.23	255155.900	1.5	653328.000	1.5
24.2188	8.03	-1.74	180724.200	1.5	593627.000	1.5	25.1166	8.03	-0.93	255184.900	1.5	653328.000	1.5
24.2257	9.03	-0.68	175237.000	2.0	588021.000	2.0	25.1234	10.02	-4.31	920.400	0.0	398955.750	1.0
24.2271	9.02	-0.36	51561.400	1.5	464321.840	2.5	25.1372	11.02	-0.85	1368.000	1.5	399182.700	1.5
24.2328	9.02	-3.21	51560.600	1.5	464223.930	1.5	25.1538	10.02	-0.33	642.900	1.0	398196.830	2.0
24.2329	9.02	-3.78	51561.400	1.5	464223.930	1.5	25.1541	10.02	-0.80	642.900	1.0	398192.700	1.0
24.2778	9.03	-1.05	238297.200	1.0	650196.000	1.0	25.1605	12.04	-2.85	0.000	2.0	397448.000	1.0
24.2778	9.03	-0.54	238297.200	1.0	650196.000	2.0	25.1668	9.03	-4.47	257390.000	1.0	654739.000	1.0
24.3026	2.01	-1.24	0.000	0.0	411478.607	0.0	25.1685	8.02	-4.93	60312.100	2.0	457634.000	1.0
24.3041	8.03	-3.70	164366.400	1.5	575819.000	1.5	25.1685	8.02	-4.44	60312.100	2.0	457634.000	2.0
24.3239	10.02	-2.00	25840.800	2.0	436959.490	1.0	25.1717	10.02	-0.68	920.400	0.0	398192.700	1.0
24.3265	10.02	-2.56	25840.800	2.0	436914.390	2.0	25.1905	16.05	-1.19	107137.000	1.5	504112.000	1.5
24.3297	9.03	-3.91	175242.000	1.0	586263.000	2.0	25.2737	12.04	-4.60	1780.000	1.0	397448.000	1.0
24.3307	10.02	-3.36	25840.800	2.0	436844.630	3.0	25.2843	21.04	-0.23	0.000	1.5	395503.000	1.5
24.3357	9.02	-1.14	34087.400	2.5	445006.130	2.5	25.2918	9.02	-3.05	0.000	1.5	395385.660	2.5
24.3378	9.02	-3.01	34123.200	1.5	445006.130	2.5	25.2948	8.03	-0.20	180480.800	1.5	575819.000	1.5
24.3386	9.02	-2.25	34087.400	2.5	444957.110	1.5	25.2993	9.02	-3.90	0.000	1.5	395268.130	1.5
24.3407	9.02	-1.40	34123.200	1.5	444957.110	1.5	25.3082	8.03	-0.45	180724.200	1.5	575853.000	2.5
24.3445	10.02	-3.45	25840.800	2.0	436611.560	3.0	25.3104	8.03	-0.51	180724.200	1.5	575819.000	1.5
24.3487	13.05	0.14	41140.000	2.0	451840.000	1.0	25.3210	12.04	-3.76	2519.000	0.0	397448.000	1.0
24.3588	9.03	-0.69	238297.200	1.0	648827.000	2.0	25.3224	8.02	-5.16	20274.000	2.0	415181.000	3.0
24.3823	21.04	-2.04	0.000	1.5	410133.000	1.5	25.3549	8.02	-1.46	20274.000	2.0	416755.000	2.0
24.3873	21.04	-0.36	0.000	1.5	410050.000	2.5	25.3730	21.04	-0.68	4328.000	1.5	398447.000	1.5
24.4051	8.02	-0.61	20274.000	2.0	430025.000	1.0	25.3896	8.02	-4.45	60312.100	2.0	454174.000	3.0
24.4065	10.02	-3.72	25840.800	2.0	435568.000	3.0	25.3917	8.02	-6.50	43186.000	0.0	437015.000	1.0
24.4089	10.02	-2.94	25840.800	2.0	435527.900	2.0	25.3917	8.02	-6.50	51561.400	1.5	445006.130	2.5
24.4176	8.03	-1.83	164366.400	1.5	573907.000	1.5	25.4165	9.02	-0.67	180480.800	1.5	573907.000	1.5
24.4302	8.03	-2.11	164366.400	1.5	573696.000	1.5	25.4177	8.03	-2.53	51560.600	1.5	444957.110	1.5
24.4701	9.02	-1.72	34087.400	2.5	442748.850	2.5	25.4196	9.02	-0.95	51561.400	1.5	444957.110	1.5
24.4723	9.02	-3.22	34123.200	1.5	442748.850	2.5	25.4197	9.02	-1.52	180480.800	1.5	573696.000	1.5
24.4734	9.02	-2.84	34087.400	2.5	442694.580	1.5	25.4335	8.03	-1.85	180724.200	1.5	573907.000	1.5
24.4755	9.02	-1.89	34123.200	1.5	442694.580	1.5	25.4471	8.03	-2.55	180724.200	1.5	573696.000	1.5
24.4769	9.02	-0.35	34087.400	2.5	442636.270	3.5	25.4493	9.03	-1.17	175237.000	2.0	568175.000	3.0
24.4907	6.03	-0.92	0.000	0.0	408318.260	0.0	25.4579	9.03	-0.37	257390.000	1.0	650196.000	1.0
24.4950	9.02	-5.45	34123.200	1.5	442370.280	1.5	25.4579	9.03	-0.87	257390.000	1.0	650196.000	2.0
24.4974	9.02	-4.90	34087.400	2.5	442294.310	1.5	25.4594	9.03	-0.55	175237.000	2.0	568019.000	2.0
24.4983	9.02	-1.81	34087.400	2.5	442278.930	2.5	25.4597	8.02	-6.58	0.000	0.0	392778.000	1.0
24.4995	9.02	-6.12	34123.200	1.5	442294.310	1.5	25.4671	9.03	-1.22	175237.000	2.0	567900.000	1.0
24.5005	9.02	-0.54	34123.200	1.5	442278.930	2.5	25.4689	9.03	-1.24	175264.100	0.0	567900.000	1.0
24.5062	9.02	-2.71	34087.400	2.5	442147.190	2.5	25.4796	8.02	-5.90	306.900	2.0	392778.000	1.0
24.5084	9.02	-1.44	34123.200	1.5	442147.190	2.5	25.5032	8.02	-2.24	113.900	1.0	392221.000	2.0
24.5508	9.02	-1.91	34087.400	2.5	441406.460	3.5	25.5158	8.02	-1.76	306.900	2.0	392221.000	2.0
24.5520	9.02	-4.36	34087.400	2.5	441385.880	1.5	25.5161	9.03	-4.52	25234.400	2.0	417143.400	2.0
24.5542	9.02	-3.78	34123.200	1.5	441385.880	1.5	25.5262	8.03	-0.78	126936.300	2.5	518690.000	1.5
24.5584	9.02	-4.04	34123.200	1.5	441315.800	1.5</							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
25.6598	9.02	-3.11	51561.400	1.5	441276.720	2.5	26.8550	10.02	-4.26	25840.800	2.0	398210.740	3.0
25.6669	9.02	-1.39	51560.600	.5	441167.400	.5	26.8560	10.02	-4.78	25840.800	2.0	398196.830	2.0
25.6670	9.02	-1.70	51561.400	1.5	441167.400	.5	26.8563	10.02	-5.68	25840.800	2.0	398192.700	1.0
25.6675	9.02	-1.60	51560.600	.5	441158.600	1.5	26.8626	11.02	-1.21	1366.000	.5	373633.000	1.5
25.6675	9.02	-1.02	51561.400	1.5	441158.600	1.5	26.8782	9.03	-5.57	147841.800	3.0	519890.000	2.0
25.6723	9.02	-2.01	0.000	1.5	389525.550	1.5	26.8816	9.03	-7.71	147888.900	2.0	519890.000	2.0
25.6892	9.02	-1.87	51560.600	.5	440828.550	1.5	26.8826	9.03	-4.66	147901.600	1.0	519890.000	2.0
25.6893	9.02	-2.53	51561.400	1.5	440828.550	1.5	26.8856	8.02	-6.07	20274.000	2.0	392221.000	2.0
25.6895	9.02	-1.61	51561.400	1.5	440825.130	2.5	26.9070	9.03	-1.20	147888.900	2.0	519539.000	1.0
25.7157	21.04	-1.31	0.000	1.5	388868.000	1.5	26.9765	12.05	-1.13	56340.000	1.5	427033.000	.5
25.7307	9.02	-4.54	51561.400	1.5	440202.480	2.5	27.0220	9.03	-1.12	53537.000	0.0	423606.400	1.0
25.7394	9.02	-3.50	51560.600	.5	440069.510	1.5	27.0676	9.02	-1.53	51560.600	.5	421005.360	.5
25.7395	9.02	-3.67	51561.400	1.5	440069.510	1.5	27.0677	9.02	-1.20	51561.400	1.5	421005.360	.5
25.8117	8.03	-1.76	126950.200	1.5	514371.300	.5	27.1197	12.05	-7.74	56340.000	1.5	425076.000	1.5
25.8153	9.02	-4.48	0.000	1.5	387367.920	2.5	27.1212	12.05	.15	56361.000	2.5	425076.000	1.5
25.8208	8.03	-1.50	126936.300	2.5	514220.560	1.5	27.1990	8.03	-9.95	71570.100	1.5	439230.900	2.5
25.8218	8.03	-2.43	126950.200	1.5	514220.400	1.5	27.2063	11.02	-4.74	0.000	1.5	367561.900	.5
25.8225	9.02	-5.17	0.000	1.5	387259.280	1.5	27.2076	8.03	-9.98	71439.800	.5	438983.900	1.5
25.8233	21.04	-2.49	4328.000	.5	391575.000	.5	27.2127	8.03	-5.88	71755.500	2.5	439230.900	2.5
25.8477	9.02	-5.35	34123.200	1.5	421005.360	.5	27.2173	8.03	-1.47	71570.100	1.5	438983.900	1.5
25.8509	9.03	-0.00	257390.000	1.0	644224.000	2.0	27.2176	8.03	-1.68	71439.800	.5	438849.000	.5
25.8808	21.04	-2.26	0.000	1.5	386387.000	2.5	27.2273	8.03	-9.98	71570.100	1.5	438849.000	.5
25.9471	6.03	-1.12	64484.000	0.0	449883.524	0.0	27.2310	8.03	-9.95	71755.500	2.5	438983.900	1.5
25.9542	6.03	-8.86	64591.000	0.0	449885.095	0.0	27.2441	11.02	-2.88	0.000	1.5	367052.300	1.5
25.9542	6.03	-1.81	64591.000	0.0	449885.095	0.0	27.2538	15.04	-2.22	88651.700	.5	455573.000	.5
26.0051	21.04	-2.58	4328.000	.5	388868.000	1.5	27.2711	9.02	-1.19	51560.600	.5	418248.560	1.5
26.0203	10.02	-4.62	55750.000	0.0	440064.900	1.0	27.2712	9.02	-4.48	51561.400	1.5	418248.560	1.5
26.0307	9.02	-7.75	34087.400	2.5	418248.560	1.5	27.2756	9.02	-8.89	51560.600	.5	418188.480	.5
26.0332	9.02	-1.64	34123.200	1.5	418248.560	1.5	27.2757	9.02	-1.20	51561.400	1.5	418188.480	.5
26.0372	9.02	-1.00	34123.200	1.5	418188.480	.5	27.2918	9.02	-2.16	51560.600	.5	417970.800	1.5
26.0389	8.03	.45	126936.300	2.5	510977.200	3.5	27.2919	9.02	-1.48	51561.400	1.5	417970.800	1.5
26.0445	10.02	-4.32	55750.000	0.0	439707.810	1.0	27.3078	11.02	-3.68	1366.000	.5	367561.900	.5
26.0496	9.02	-1.26	34087.400	2.5	417970.800	1.5	27.3101	11.02	-3.93	0.000	1.5	366165.300	2.5
26.0520	9.02	-2.25	34123.200	1.5	417970.800	1.5	27.3129	15.04	-1.91	89446.300	1.5	455573.000	.5
26.0547	8.03	-8.84	126936.300	2.5	510744.900	2.5	27.3206	9.02	-1.87	51560.600	.5	417585.350	.5
26.0556	8.03	.30	126950.200	1.5	510744.900	2.5	27.3206	9.02	-2.16	51561.400	1.5	417585.350	.5
26.0782	9.02	-1.50	34123.200	1.5	417585.350	.5	27.3458	11.02	-3.86	1366.000	.5	367052.300	1.5
26.0925	8.02	-2.43	20274.000	2.0	403526.000	1.0	27.3700	20.02	-2.08	0.000	0.0	365363.880	1.0
26.1028	8.02	-4.49	20274.000	2.0	403374.000	3.0	27.4003	11.01	-2.66	0.000	0.0	364960.000	1.0
26.1605	8.02	-4.90	20274.000	2.0	402530.000	3.0	27.4255	9.02	-4.63	51561.400	1.5	416185.420	2.5
26.1713	9.02	-4.41	34087.400	2.5	416185.420	2.5	27.4267	9.02	-9.92	51560.600	.5	416168.300	1.5
26.1725	9.02	-1.52	34087.400	2.5	416168.300	1.5	27.4268	9.02	-1.60	51561.400	1.5	416168.300	1.5
26.1737	9.02	-1.47	34123.200	1.5	416185.420	2.5	27.4427	8.03	-4.63	289015.400	1.5	653411.000	.5
26.1749	9.02	-5.58	34123.200	1.5	416168.300	1.5	27.4466	20.02	-1.98	0.000	0.0	364343.850	1.0
26.1797	16.05	-8.89	247420.000	1.5	629395.000	2.5	27.4490	8.03	-1.33	289015.400	1.5	653328.000	1.5
26.1819	16.05	-7.74	247452.000	2.5	629395.000	3.5	27.4496	8.03	-3.37	289023.500	2.5	653328.000	1.5
26.1819	16.05	-2.04	247452.000	2.5	629395.000	2.5	27.4851	9.02	-4.77	51560.600	.5	415394.510	1.5
26.2032	9.02	-5.13	34087.400	2.5	415720.860	2.5	27.4851	9.02	-3.97	51561.400	1.5	415394.510	1.5
26.2056	9.02	-6.28	34123.200	1.5	415720.860	2.5	27.5005	13.05	-6.60	88210.000	0.0	451840.000	1.0
26.2114	8.02	-1.19	20274.000	2.0	401787.000	2.0	27.5010	9.02	-4.84	51560.600	.5	415184.120	.5
26.2256	9.02	-3.79	34087.400	2.5	415394.510	1.5	27.5010	9.02	-4.69	51561.400	1.5	415184.120	.5
26.2280	9.02	-4.58	34123.200	1.5	415394.510	1.5	27.5103	11.01	-2.36	0.000	0.0	363500.000	1.0
26.2323	10.02	-3.38	55750.000	0.0	436959.490	1.0	27.5280	8.02	-1.52	0.000	0.0	363266.800	1.0
26.2408	8.02	-1.74	0.000	0.0	381086.000	1.0	27.5366	8.02	-1.05	113.900	1.0	363266.800	1.0
26.2425	9.02	-4.31	34123.200	1.5	415184.120	.5	27.5404	9.03	-3.93	53537.000	0.0	416639.800	1.0
26.2486	8.02	-3.04	113.900	1.0	381086.000	1.0	27.5513	8.02	-4.83	306.900	2.0	363266.800	1.0
26.2598	9.02	-1.87	34087.400	2.5	414897.720	3.5	27.6172	8.03	.41	289023.500	2.5	651117.000	3.5
26.2619	8.02	-2.15	306.900	2.0	381086.000	1.0	27.6180	8.03	.26	289015.400	1.5	651098.000	2.5
26.2748	8.02	-3.02	113.900	1.0	380706.000	2.0	27.6186	8.03	-4.89	289023.500	2.5	651098.000	2.5
26.2829	8.02	-2.11	306.900	2.0	380782.000	3.0	27.6400	20.02	-2.75	0.000	0.0	361794.080	1.0
26.2882	8.02	-6.66	306.900	2.0	380706.000	2.0	27.6523	9.02	-3.67	51561.400	1.5	413195.000	2.5
26.3691	8.02	-4.81	0.000	0.0	379232.000	1.0	27.6581	12.04	.19	35890.000	2.0	397448.000	1.0
26.3728	8.02	-4.52	113.900	1.0	379293.000	2.0	27.6737	20.02	-1.77	0.000	0.0	361353.310	1.0
26.3770	8.02	-1.17	113.900	1.0	379232.000	1.0	27.6780	9.02	-4.64	34087.400	2.5	395385.560	2.5
26.3777	9.02	-4.96	34087.400	2.5	413195.000	2.5	27.6807	9.02	-1.78	34123.200	1.5	395385.560	2.5
26.3802	9.02	.13	34123.200	1.5	413195.000	2.5	27.6870	9.02	-1.81	34087.400	2.5	395268.130	1.5
26.3813	9.02	.28	34087.400	2.5	413143.860	3.5	27.6897	9.02	-4.85	34123.200	1.5	395268.130	1.5
26.3818	8.02	-3.30	306.900	2.0	379356.000	3.0	27.7153	8.02	-2.18	20274.000	2.0	381086.000	1.0
26.3862	8.02	-1.54	306.900	2.0	379293.000	2.0	27.7386	8.02	-1.17	20274.000	2.0	380782.000	3.0
26.3904	8.02	-3.16	306.900	2.0	379232.000	1.0	27.7394	9.03	-4.47	228908.000	2.0	589406.000	3.0
26.4256	8.02	-1.64	0.000	0.0	378420.900	1.0	27.7445	8.02	-2.71	20274.000	2.0	380706.000	2.0
26.4324	8.02	-1.64	113.900	1.0	378438.100	0.0	27.7516	8.02	-1.10	43186.000	0.0	403526.000	1.0
26.4336	8.02	-1.76	113.900	1.0	378420.900	1.0	27.8430	20.02	-4.35	0.000	0.0	359156.830	1.0
26.4344	8.02	-1.54	113.900	1.0	378408.500	2.0	27.8488	8.02	-2.42	20274.000	2.0	379356.000	3.0
26.4381	15.04	-1.83	88651.700	.5	466893.000	1.5	27.8537	8.02	-2.05	20274.000	2.0	379293.000	2.0
26.4471	8.02	-1.54	306.900	2.0	378420.900	1.0	27.8584	8.02	-3.32	20274.000	2.0	379232.000	1.0
26.4479	8.02	-1.06	306.900	2.0	378408.500	2.0	27.8699	13.04	-4.32	0.000	1.5	358810.000	.5
26.4849	8.02	-1.29	113.900	1.0	377687.000	2.0	27.8810	8.02	-3.96	0.000	0.0	358667.400	1.0
26.4938	15.04	-1.56	89446.300	1.5	466893.000	2.5	27.8898	8.02	-4.02	113.900	1.0	358667.400	1.0
26.4938	15.04	-2.52	89446.300	1.5	466893.000	1.5	27.9049	8.02	-3.93	306.900	2.0	358667.400	1.0
26.4944	8.03	-6.68	25515										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
28.0609	15.04	-2.32	89446.300	1.5	445814.000	1.5	29.4625	9.02	-4.78	51561.400	1.5	390976.350	1.5
28.0658	11.05	-2.13	872577.000	1.0	1228882.000	2.0	29.4748	9.02	-2.94	51561.400	1.5	390834.600	2.5
28.0802	9.02	-1.52	34087.400	2.5	390210.430	3.5	29.4836	19.04	-4.37	0.000	1.5	339172.000	2.5
28.0901	9.02	-2.46	34123.200	1.5	390120.770	.5	29.5169	10.01	-2.01	0.000	1.5	338788.760	.5
28.0904	9.02	-2.71	34087.400	2.5	390080.300	1.5	29.5368	9.02	-1.60	51560.600	.5	390120.770	.5
28.0906	9.02	-3.72	34087.400	2.5	390077.800	2.5	29.5369	9.02	-1.93	51561.400	1.5	390120.770	.5
28.0933	9.02	-4.46	34123.200	1.5	390080.300	1.5	29.5373	9.02	-5.07	34123.200	1.5	372678.470	.5
28.0935	9.02	-1.87	34123.200	1.5	390077.800	2.5	29.5404	9.02	-2.24	51560.600	.5	390080.300	1.5
28.1203	9.02	-2.62	34123.200	1.5	389737.630	.5	29.5404	9.02	-1.85	51561.400	1.5	390080.300	1.5
28.1219	11.05	-1.18	873287.000	2.0	1228882.000	2.0	29.5407	9.02	-3.20	51561.400	1.5	390077.800	2.5
28.1343	9.02	-2.06	34087.400	2.5	389525.550	1.5	29.5416	15.04	-1.91	88651.700	.5	427157.000	.5
28.1371	9.02	-4.08	34087.400	1.5	389525.550	1.5	29.5514	8.02	-1.20	20274.000	2.0	358667.400	1.0
28.1398	13.04	-4.63	3442.000	.5	358810.000	.5	29.5675	8.03	-1.06	180480.800	.5	518690.000	1.5
28.1755	11.05	-4.62	873287.000	2.0	1228205.000	3.0	29.5680	8.03	-1.75	180480.800	.5	518684.000	.5
28.1809	11.01	-2.34	0.000	0.0	354850.000	1.0	29.5703	9.02	-1.75	51560.600	.5	389737.630	.5
28.2025	9.03	-1.15	228908.000	2.0	583486.000	1.0	29.5704	9.02	-2.07	51561.400	1.5	389737.630	.5
28.2068	8.02	-4.90	20274.000	2.0	374798.600	3.0	29.5851	10.01	-2.29	780.340	.5	338788.760	.5
28.2106	9.03	.07	228908.000	2.0	583385.000	2.0	29.5888	8.03	-1.35	180724.200	1.5	518690.000	1.5
28.2176	8.02	-5.64	20274.000	2.0	374662.500	2.0	29.5889	9.02	-1.64	51560.600	.5	389525.550	1.5
28.2213	7.02	-1.05	174.360	1.5	354517.000	2.5	29.5889	9.02	-1.10	51561.400	1.5	389525.550	1.5
28.2225	9.03	.22	228908.000	2.0	583235.000	2.0	29.5893	8.03	-1.05	180724.200	1.5	518684.000	.5
28.2228	8.03	-1.28	164366.400	.5	518690.000	1.5	29.5946	8.02	-1.85	43186.000	0.0	381086.000	1.0
28.2233	8.03	-1.62	164366.400	.5	518684.000	.5	29.6111	15.04	-1.61	89446.300	1.5	427157.000	.5
28.2246	8.02	-6.82	20274.000	2.0	374575.000	1.0	29.6169	19.04	-4.53	0.000	1.5	337645.000	1.5
28.2937	9.02	-2.67	34087.400	2.5	387523.470	3.5	29.6201	8.02	-4.49	120025.400	3.0	457634.000	2.0
28.3061	9.02	-3.56	34087.400	2.5	387367.920	2.5	29.6225	8.02	-1.73	120052.600	2.0	457634.000	1.0
28.3078	11.01	-2.04	0.000	0.0	353260.000	1.0	29.6225	8.02	-2.23	120052.600	2.0	457634.000	2.0
28.3090	9.02	-2.97	34123.200	1.5	387367.920	2.5	29.6554	20.03	-1.99	0.000	1.5	337207.000	.5
28.3148	9.02	-4.81	34087.400	2.5	387259.280	1.5	29.6610	8.03	-4.28	164366.400	.5	501509.200	1.5
28.3177	9.02	-4.02	34123.200	1.5	387259.280	1.5	29.6857	6.03	-1.81	64484.000	0.0	401346.530	0.0
28.3420	7.03	-2.21	67136.000	0.0	419969.251	0.0	29.6879	8.02	-5.63	20274.000	2.0	357111.000	2.0
28.3470	7.03	.15	67200.000	0.0	419971.016	0.0	29.6951	6.03	-1.51	64591.000	0.0	401346.896	0.0
28.3470	7.03	-1.33	67200.000	0.0	419971.016	0.0	29.6957	20.02	-1.16	0.000	0.0	336749.110	1.0
28.3487	16.05	-5.59	247420.000	1.5	600170.000	2.5	29.7064	19.04	-1.82	0.000	1.5	336628.000	.5
28.3513	16.05	-4.43	247452.000	2.5	600170.000	3.5	29.7120	8.02	-3.24	20274.000	2.0	356838.000	1.0
28.3513	16.05	-1.74	247452.000	2.5	600170.000	2.5	29.7390	16.05	-2.61	247420.000	1.5	583679.000	1.5
28.3579	7.03	.42	67344.000	0.0	419979.421	0.0	29.7418	16.05	-1.66	247452.000	2.5	583679.000	1.5
28.3590	7.03	-1.50	67344.000	0.0	419965.743	0.0	29.7578	8.02	-2.02	43186.000	0.0	379232.000	1.0
28.3590	7.03	-4.33	67344.000	0.0	419965.743	0.0	29.7791	9.02	-4.80	51561.400	1.5	387367.920	2.5
28.4119	9.03	-1.98	238297.200	1.0	590262.000	0.0	29.7886	9.02	-4.26	51560.600	.5	387259.280	1.5
28.4169	9.03	-1.11	238297.200	1.0	590201.000	1.0	29.8298	8.02	-6.04	43186.000	0.0	378420.900	1.0
28.4312	9.03	-1.87	238297.200	1.0	590024.000	2.0	29.8427	21.03	-1.68	0.000	0.0	335090.000	1.0
28.4989	9.03	-1.14	238297.200	1.0	589188.000	2.0	29.9268	8.02	-1.79	120025.400	3.0	454174.000	2.0
28.5053	9.03	-1.61	238297.200	1.0	589109.000	1.0	29.9268	8.02	.11	120025.400	3.0	454174.000	3.0
28.5100	11.04	-5.54	0.000	1.5	350754.000	.5	29.9292	8.02	-2.26	120052.600	2.0	454174.000	1.0
28.5568	11.05	-1.62	0.000	0.0	350179.000	1.0	29.9292	8.02	-1.04	120052.600	2.0	454174.000	2.0
28.5710	8.03	-1.39	164366.400	.5	514371.300	.5	29.9292	8.02	-2.23	120052.600	2.0	454174.000	3.0
28.5834	8.03	-1.09	164366.400	.5	514220.400	1.5	29.9298	8.02	-4.91	120058.500	1.0	454174.000	1.0
28.5940	9.03	-3.77	238297.200	1.0	588021.000	2.0	29.9319	20.03	-1.16	3115.000	.5	337207.000	.5
28.6048	8.02	-2.27	43186.000	0.0	352778.000	0.0	29.9499	8.03	-1.12	180480.800	.5	514371.300	.5
28.6114	17.04	-1.65	0.000	.5	349511.000	1.5	29.9635	8.03	-1.48	180480.800	.5	514220.400	1.5
28.6139	11.05	-1.75	698.000	1.0	350179.000	1.0	29.9659	7.02	-2.29	0.000	.5	333713.100	.5
28.6360	23.04	-0.00	0.000	1.5	349210.600	2.5	29.9718	8.03	-1.44	180724.200	1.5	514371.300	.5
28.6869	23.04	.15	620.000	2.5	349210.600	3.5	29.9815	7.02	-1.99	174.360	1.5	333713.100	.5
28.6869	23.04	-1.15	620.000	2.5	349210.600	2.5	29.9853	8.03	-1.74	180724.200	1.5	514220.400	1.5
28.7092	11.05	-1.96	1858.000	2.0	350179.000	1.0	30.0150	11.01	-1.46	0.000	0.0	333166.700	1.0
28.7341	17.04	-1.36	1492.000	1.5	349511.000	2.5	30.0200	11.01	-1.63	0.000	0.0	333111.600	1.0
28.7341	17.04	-2.32	1492.000	1.5	349511.000	1.5	30.0282	19.04	-4.32	24012.700	1.5	357033.000	1.5
28.9092	16.05	-4.93	105874.000	.5	451785.000	1.5	30.0318	19.04	-1.04	24012.700	1.5	356993.000	2.5
28.9143	6.03	-1.61	64484.000	0.0	410333.631	0.0	30.0416	9.03	-2.29	257390.000	1.0	590262.000	0.0
28.9230	6.03	-1.36	64591.000	0.0	410336.600	0.0	30.0454	8.02	-2.26	120025.400	3.0	452855.000	2.0
28.9230	6.03	-1.31	64591.000	0.0	410336.600	0.0	30.0454	8.02	-1.71	120025.400	3.0	452855.000	3.0
28.9376	8.02	-4.13	60312.100	2.0	405883.000	3.0	30.0454	8.02	.35	120025.400	3.0	452855.000	4.0
28.9414	19.04	-3.67	0.000	1.5	345526.000	1.5	30.0471	9.03	-2.32	257390.000	1.0	590201.000	1.0
28.9417	8.02	-4.88	60312.100	2.0	405834.100	2.0	30.0479	8.02	-4.01	120052.600	2.0	452855.000	2.0
28.9541	12.05	-2.19	56340.000	1.5	401714.000	.5	30.0479	8.02	-3.11	120052.600	2.0	452855.000	3.0
28.9732	8.03	-1.72	231537.500	1.5	576684.500	2.5	30.0484	8.02	-4.55	120058.500	1.0	452855.000	2.0
28.9897	8.03	-1.98	255155.900	1.5	600106.000	2.5	30.0496	19.04	-1.68	24249.500	2.5	357033.000	1.5
28.9909	8.03	-1.94	255155.900	1.5	600092.000	1.5	30.0501	8.02	-2.77	0.000	0.0	332777.100	1.0
28.9910	8.03	-1.89	231537.500	1.5	576472.500	1.5	30.0517	14.03	-2.44	0.000	.5	332759.920	1.5
28.9933	8.03	-1.24	255184.900	.5	600092.000	1.5	30.0531	14.03	-2.75	0.000	.5	332743.870	.5
29.0031	8.03	-1.19	231537.500	1.5	576328.500	.5	30.0532	19.04	-1.12	24249.500	2.5	356993.000	2.5
29.0132	16.05	-1.66	107137.000	1.5	451808.000	2.5	30.0604	8.02	-3.83	113.900	1.0	332777.100	1.0
29.0147	9.03	-1.39	175237.000	2.0	519890.000	2.0	30.0631	9.03	-3.32	257390.000	1.0	590024.000	2.0
29.0151	9.03	-1.39	175242.000	1.0	519890.000	2.0	30.0779	8.02	-3.99	306.900	2.0	332777.100	1.0
29.0151	16.05	-1.61	107137.000	1.5	451785.000	1.5	30.1316	11.01	-1.91	0.000	0.0	331877.670	1.0
29.0443	9.03	-1.86	175237.000	2.0	519539.000	1.0	30.1388	9.03	-1.35	257390.000	1.0	589188.000	2.0
29.0447	9.03	-1.61	175242.000	1.0	519539.000	1.0	30.1433	11.01	-1.61	0.000	0.0	331768.770	1.0
29.0466	9.03	-1.31	175264.100	0.0	519539.000	1.0	30.1460	9.03	-1.94	257390.000	1.0	589109.000	1.0
29.0614	9.03	-2.09	175242.000	1.0	519341.000	0.0	30.1647	8.02	-3.12	306.900	2.		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
30.5658	8.02	0.00	113.900	1.0	327277.180	2.0
30.5704	8.02	-0.55	113.900	1.0	327227.940	1.0
30.5769	8.02	0.24	306.900	2.0	327350.900	3.0
30.5838	8.02	-0.65	306.900	2.0	327277.180	2.0
30.5884	8.02	-1.91	306.900	2.0	327227.940	1.0
30.6621	8.03	-0.56	126936.300	2.5	453071.500	1.5
30.6634	8.03	-1.52	126950.200	1.5	453071.500	1.5
30.6884	8.03	-0.81	126950.200	1.5	452806.600	0.5
30.7152	11.04	-0.06	48362.000	1.5	373934.000	1.5
30.7248	13.05	-0.60	0.000	2.0	325470.000	0.0
30.7809	9.02	-4.34	0.000	1.5	324876.720	1.5
30.8052	8.02	-3.05	113.900	1.0	324734.220	2.0
30.8173	9.02	-4.98	0.000	1.5	324492.550	0.5
30.8235	8.02	-3.36	306.900	2.0	324734.220	2.0
30.8264	11.04	0.21	48337.000	2.5	372734.000	1.5
30.8288	11.04	-0.72	48362.000	1.5	372734.000	1.5
30.8308	8.02	-1.94	306.900	2.0	324658.250	3.0
30.8310	8.02	-2.25	113.900	1.0	324462.460	2.0
30.8494	8.02	-3.05	306.900	2.0	324462.460	2.0
30.8560	13.05	-0.70	2736.000	1.0	326822.000	0.0
30.9594	20.02	-3.06	0.000	0.0	323003.560	1.0
30.9596	13.05	-0.13	0.000	2.0	323002.000	2.0
30.9853	13.05	-0.82	2736.000	1.0	325470.000	1.0
31.0171	6.02	-1.79	0.000	0.0	322402.804	0.0
31.0234	14.03	-2.25	0.000	0.5	322337.830	1.5
31.0257	14.03	-2.55	0.000	0.5	322312.930	1.5
31.0579	15.04	-1.41	88651.700	0.5	410631.100	1.5
31.0908	13.05	-0.70	3831.000	0.0	325470.000	1.0
31.1029	19.04	-1.89	24012.700	1.5	345526.000	1.5
31.1258	19.04	-0.17	24249.500	2.5	345526.000	1.5
31.1347	15.04	-1.15	89446.300	1.5	410631.100	2.5
31.1347	15.04	-2.10	89446.300	1.5	410631.100	1.5
31.1412	9.02	-1.14	51560.600	0.5	372678.470	0.5
31.1413	9.02	-0.85	51561.400	1.5	372678.470	0.5
31.1499	8.03	-0.39	180480.800	0.5	501509.200	1.5
31.1682	8.03	-0.13	180724.200	1.5	501564.400	2.5
31.1735	8.03	-1.08	180724.200	1.5	501509.200	1.5
31.1926	11.05	-0.88	0.000	0.0	320589.000	1.0
31.2059	10.03	-6.06	0.000	1.5	320452.000	0.5
31.2240	13.05	-0.61	2736.000	1.0	323002.000	2.0
31.2311	12.04	-0.55	77254.000	0.0	397448.000	1.0
31.2418	6.03	-0.57	0.000	0.0	320083.990	0.0
31.2421	8.02	-5.94	43186.000	0.0	363266.800	1.0
31.2438	15.03	-1.52	0.000	0.0	320063.500	1.0
31.2448	15.03	-1.82	0.000	0.0	320053.000	1.0
31.2455	6.03	-0.88	0.000	0.0	320046.687	0.0
31.2606	11.05	-0.98	698.000	1.0	320589.000	1.0
31.2743	10.03	-5.48	0.000	1.5	319751.000	1.5
31.2780	19.04	-0.38	24012.700	1.5	343726.000	0.5
31.3539	10.01	-2.64	0.000	1.5	318940.080	1.5
31.3744	11.05	-0.78	1858.000	2.0	320589.000	1.0
31.4018	10.01	-3.34	0.000	1.5	318452.820	1.5
31.4212	10.01	-6.67	0.000	1.5	318256.130	2.5
31.4308	10.01	-3.35	780.340	0.5	318940.080	1.5
31.4712	7.02	-0.66	0.000	0.5	317750.800	1.5
31.4790	10.01	-4.04	780.340	0.5	318452.820	1.5
31.4854	7.02	-0.41	174.360	1.5	317781.800	2.5
31.4885	7.02	-1.36	174.360	1.5	317750.800	1.5
31.5184	19.04	-0.85	39758.000	0.5	357033.000	1.5
31.5219	9.02	-0.70	0.000	1.5	317239.970	2.5
31.5501	19.04	-0.95	40077.000	1.5	357033.000	1.5
31.5536	9.02	-0.87	0.000	1.5	316920.990	1.5
31.5541	19.04	-0.57	40077.000	1.5	356993.000	2.5
31.5643	12.05	-0.67	84900.000	0.5	401714.000	0.5
31.5746	9.02	-1.17	0.000	1.5	316709.810	0.5
31.5764	12.05	-0.46	85022.000	1.5	401714.000	0.5
31.6976	8.02	-1.83	43186.000	0.0	358667.400	1.0
31.7206	8.02	-0.77	142381.700	2.0	457634.000	1.0
31.7206	8.02	-1.33	142381.700	2.0	457634.000	2.0
31.7222	8.02	-0.84	142396.900	0.0	457634.000	1.0
31.7300	19.04	-3.60	24012.700	1.5	339172.000	2.5
31.7338	17.03	-2.56	0.000	0.0	315121.000	1.0
31.7538	19.04	-2.41	24249.500	2.5	339172.000	2.5
31.7834	17.03	-2.58	491.000	1.0	315121.000	1.0
31.8093	20.03	-0.35	0.000	1.5	314373.000	2.5
31.8391	20.03	-1.68	0.000	1.5	314079.000	1.5
31.8452	10.01	-3.14	0.000	1.5	314018.940	0.5
31.8695	17.03	-2.63	1341.000	2.0	315121.000	1.0
31.8741	17.03	-1.47	491.000	1.0	314225.000	2.0
31.8825	10.01	-2.16	0.000	1.5	313652.170	1.5
31.8825	8.02	-3.90	43186.000	0.0	356838.000	1.0
31.8845	19.04	-2.93	24012.700	1.5	337645.000	1.5
31.9086	19.04	-2.46	24249.500	2.5	337645.000	1.5
31.9245	10.01	-2.84	780.340	0.5	314018.940	0.5
31.9305	10.01	-2.86	0.000	1.5	313180.230	1.5
31.9498	17.03	-1.58	0.000	0.0	312991.000	1.0
31.9587	10.01	-6.41	0.000	1.5	312903.480	2.5
31.9607	17.03	-1.00	1341.000	2.0	314225.000	2.0
31.9620	10.01	-2.87	780.340	0.5	313652.170	1.5
31.9648	11.03	0.24	30839.400	2.0	343684.000	1.0
31.9882	19.04	-2.72	24012.700	1.5	336628.000	0.5
31.9977	8.02	-1.65	20274.000	2.0	332777.100	1.0
32.0000	17.03	-1.72	491.000	1.0	312991.000	1.0
32.0103	10.01	-3.56	780.340	0.5	313180.230	1.5
32.0250	17.03	-1.53	491.000	1.0	312747.000	0.0
32.0726	8.02	-0.83	142381.700	2.0	454174.000	1.0
32.0726	8.02	-1.17	142381.700	2.0	454174.000	2.0
32.0726	8.02	-0.86	142381.700	2.0	454174.000	3.0
32.0742	8.02	-0.89	142396.900	0.0	454174.000	1.0
32.0873	17.03	-1.46	1341.000	2.0	312991.000	1.0
32.0980	8.02	0.30	20274.000	2.0	331820.200	3.0
32.0999	12.03	-0.28	0.000	1.5	311527.000	0.5
32.1051	11.05	-5.66	698.000	1.0	312175.000	2.0
32.1076	7.02	-1.65	57252.000	1.5	368704.800	2.5
32.1134	7.02	-1.68	57192.100	0.5	368588.300	1.5
32.1160	7.02	-1.28	57333.200	2.5	368704.800	2.5
32.1196	7.02	-2.17	57252.000	1.5	368588.300	1.5
32.1199	7.02	-2.38	57192.100	0.5	368525.600	0.5
32.1261	7.02	-1.68	57252.000	1.5	368525.600	0.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
32.1280	7.02	-1.64	57333.200	2.5	368588.300	1.5
32.1450	8.03	-1.54	289015.400	1.5	600106.000	2.5
32.1458	8.03	-0.40	289023.500	2.5	600106.000	2.5
32.1464	8.03	-0.59	289015.400	1.5	600092.000	1.5
32.1473	8.03	-1.54	289023.500	2.5	600092.000	1.5
32.1581	20.03	-0.54	3115.000	.5	314079.000	1.5
32.1927	9.03	-1.30	257390.000	1.0	568019.000	2.0
32.2051	9.03	-0.84	257390.000	1.0	567900.000	1.0
32.2089	8.02	-0.74	142381.700	2.0	452855.000	2.0
32.2089	8.02	.16	142381.700	2.0	452855.000	3.0
32.2251	11.05	-5.20	1858.000	2.0	312175.000	2.0
32.2503	7.03	-1.23	67136.000	0.0	377210.635	0.0
32.2570	7.03	-0.75	67200.000	0.0	377210.635	0.0
32.2643	9.02	-1.62	34087.400	2.5	344027.580	1.5
32.2646	9.02	-0.43	34087.400	2.5	344024.170	2.5
32.2680	9.02	-0.62	34123.200	1.5	344027.580	1.5
32.2684	9.02	-1.58	34123.200	1.5	344024.170	2.5
32.2724	7.03	-0.53	67344.000	0.0	377206.297	0.0
32.3302	8.02	-4.94	20274.000	2.0	329581.980	1.0
32.3311	12.03	-0.59	2227.000	.5	311527.000	.5
32.3422	8.02	-3.06	20274.000	2.0	329467.980	2.0
32.4568	10.01	-2.37	0.000	1.5	308101.610	1.5
32.4569	10.01	-1.36	0.000	1.5	308101.270	2.5
32.5392	10.01	-1.60	780.340	.5	308101.610	1.5
32.5651	8.02	-3.11	20274.000	2.0	327350.900	3.0
32.5730	8.02	-3.31	20274.000	2.0	327277.180	2.0
32.5782	8.02	-4.17	20274.000	2.0	327227.940	1.0
32.6065	10.01	-3.17	0.000	1.5	306687.290	2.5
32.6517	10.01	-1.70	0.000	1.5	306262.770	1.5
32.6538	10.01	-0.80	0.000	1.5	306243.620	2.5
32.6786	10.01	-1.01	0.000	1.5	306011.070	.5
32.7045	19.04	-0.97	39758.000	.5	345526.000	1.5
32.7137	14.03	-2.61	0.000	.5	305682.270	1.5
32.7181	14.03	-2.31	0.000	.5	305641.100	.5
32.7244	10.01	-1.39	0.000	1.5	305582.270	.5
32.7261	10.01	-0.69	0.000	1.5	305566.940	1.5
32.7351	10.01	-1.03	780.340	.5	306262.770	1.5
32.7387	19.04	-0.40	40077.000	1.5	345526.000	1.5
32.7621	10.01	-1.32	780.340	.5	306011.070	.5
32.8082	10.01	-1.06	780.340	.5	305582.270	.5
32.8098	10.01	-1.36	780.340	.5	305566.940	1.5
32.8450	8.02	-0.34	20274.000	2.0	324734.220	2.0
32.8466	15.04	-1.17	0.000	.5	304445.300	1.5
32.8472	10.01	-2.45	0.000	1.5	304440.240	.5
32.8485	16.05	-0.16	247420.000	1.5	551848.000	2.5
32.8519	16.05	-0.01	247452.000	2.5	551848.000	3.5
32.8519	16.05	-1.31	247452.000	2.5	551848.000	2.5
32.8532	8.02	-2.74	20274.000	2.0	324658.250	3.0
32.8744	8.02	-1.62	20274.000	2.0	324462.460	2.0
32.8773	15.04	-1.45	0.000	.5	304161.300	.5
32.8975	10.01	-1.71	0.000	1.5	303974.290	1.5
32.8982	19.04	-0.80	39758.000	.5	343726.000	.5
32.9025	10.01	-4.34	0.000	1.5	303928.100	.5
32.9053	19.02	-1.39	0.000	1.5	303902.000	1.5
32.9116	20.03	.07	0.000	1.5	303844.000	.5
32.9151	10.04	-0.56	0.000	0.0	303812.000	1.0
32.9316	10.01	-2.16	780.340	.5	304440.240	.5
32.9328	19.04	-1.27	40077.000	1.5	343726.000	.5
32.9391	20.03	-0.52	0.000	1.5	303591.000	1.5
32.9470	10.01	-2.87	0.000	1.5	303518.210	1.5
32.9600	10.04	-0.71	414.000	1.0	303812.000	1.0
32.9728	10.01	-5.67	0.000	1.5	303279.910	2.5
32.9774	10.01	-2.06	0.000	1.5	303237.910	1.5
32.9822	10.01	-2.42	780.340	.5	303974.290	1.5
32.9872	10.01	-3.96	780.340	.5	303928.100	.5
32.9955	10.01	-1.44	0.000	1.5	303071.840	2.5
33.0075	10.01	-2.00	0.000	1.5	302961.070	1.5
33.0152	10.01	-5.29	0.000	1.5	302890.570	2.5
33.0208	10.01	-1.29	0.000	1.5	302839.280	2.5
33.0216	10.01	-2.06	0.000	1.5	302831.800	.5
33.0232	10.01	-2.32	0.000	1.5	302816.980	1.5
33.0319	10.01	-3.61	780.340	.5	303518.210	1.5
33.0360	10.04	-1.91	1112.000	2.0	303812.000	1.0
33.0605	10.01	-2.77	0.000	1.5	302475.610	.5
33.0625	10.01	-1.27	780.340	.5	303237.910	1.5
33.0660	10.01	-1.41	0.000	1.5	302425.870	1.5
33.0683	19.02	-0.39	0.000	1.5	302404.000	2.5
33.0697	11.04	-3.10	48362.000	1.5	350754.000	.5
33.0789	10.01	-0.82	0.000	1.5	302307.750	2.5
33.0928	10.01	-2.82	780.340	.5	302961.070	1.5
33.1063	10.01	-3.21	0.000	1.5	302057.260	.5
33.1069	10.01	-1.77	780.340	.5	302831.800	.5
33.1086	10.01	-1.56	780.340	.5	302816.980	1.5
33.1183	10.01	-2.74	0.000	1.5	301948.000	1.5
33.1284	10.01	-3.04	0.000	1.5	301855.710	2.5
33.1411	19.02	-0.62	2162.000	.5	303902.000	1.5
33.1460	10.01	-2.57	780.340	.5	302475.610	.5
33.1515	10.01	-1.32	780.340	.5	302425.870	1.5
33.1836	17.03	-0.91	13767.000	2.0	315121.000	1.0
33.1895	18.04	-2.49	0.000	0.0	301300.000	1.0
33.1921	10.01	-2.89	780.340	.5	302057.260	.5
33.2041	10.01	-2.92	780.340	.5	301948.000	1.5
33.2129	7.02	-1.85	0.000	.5	301088.200	.5
33.2321	7.02	-1.55	174.360	1.5	301088.200	.5
33.2525	20.03	-0.25	3115.000	.5	303844.000	.5
33.2543	11.04	-0.49	73221.000	.5	373934.000	.5
33.2586	11.04	-0.72	73260.000	1.5	373934.000	.5
33.2740	18.04	-2.33	765.000	1.0	301300.000	1.0
33.2805	20.03	.13	3115.000	.5	303591.000	1.5
33.2825	17.03	-3.61	13767.000	2.0	314225.000	2.0
33.3057	20.03	-0.88	0.000	1.5	300249.000	.5
33.3198	24.03	-1.22	244.000	2.5	300366.000	3.5
33.3324	30.02	-5.54	0.000	0.0	300088.700	1.0
33.3350	24.03	-2.02	561.000	3.5	300366.000	3.5
33.3875	11.04	-0.77	73221.000	.5	372734.000	1.5
33.3919	11.04	-0.69	73260.000	1.5	372734.000	1.5
33.3990	24.03	-3.08	956.000	4.5	300366.000	3.5
33.4019	24.03	-0.98	956.000	4.5	300340.000	5.5
33.4056	10.03	-4.67	0.000	1.5	299351.000	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
33.4146	18.04	-2.98	2030.000	2.0	301300.000	1.0	35.3377	18.02	-1.72	1112.400	1.0	284096.260	2.0
33.4198	17.03	-1.84	13767.000	2.0	312991.000	1.0	35.3423	9.01	-1.19	0.000	2.0	282946.970	2.0
33.4342	19.04	-3.98	40077.000	1.5	339172.000	2.5	35.3466	9.01	-1.73	0.000	2.0	282912.560	1.0
33.5050	7.03	.70	130695.000	0.0	429157.916	0.0	35.3527	9.01	-1.34	489.900	0.0	283353.780	1.0
33.5374	20.03	-1.19	0.000	1.5	298175.000	1.5	35.3565	9.02	-4.08	34087.400	2.5	316920.990	1.5
33.5664	11.04	-7.70	0.000	1.5	297917.000	1.5	35.3610	9.02	-4.59	34123.200	1.5	316920.990	1.5
33.5698	19.04	-3.73	39758.000	.5	337645.000	1.5	35.3638	9.01	-2.22	0.000	2.0	282774.990	2.0
33.5702	11.04	-7.35	0.000	1.5	297883.000	2.5	35.3756	10.01	-3.75	0.000	1.5	282680.650	.5
33.6058	19.04	-2.88	40077.000	1.5	337645.000	1.5	35.3850	9.01	-2.48	341.000	1.0	282946.970	2.0
33.6548	20.03	-.63	3115.000	.5	300249.000	.5	35.3874	9.02	-4.62	34123.200	1.5	316709.810	.5
33.6555	18.04	-.75	765.000	1.0	297893.000	2.0	35.3874	9.01	-2.88	0.000	2.0	282586.510	2.0
33.6848	19.04	-3.86	39758.000	.5	336628.000	.5	35.3890	17.03	-1.55	32547.000	0.0	315121.000	1.0
33.7210	19.04	-3.32	40077.000	1.5	336628.000	.5	35.3893	9.01	-2.52	341.000	1.0	282912.560	1.0
33.7554	18.04	-.84	0.000	0.0	296249.000	1.0	35.3896	9.01	-1.63	0.000	2.0	282569.090	3.0
33.7994	18.04	-.27	2030.000	2.0	297893.000	2.0	35.3913	9.01	-1.40	341.000	1.0	282896.270	0.0
33.8340	7.02	-.64	101023.800	2.5	396584.800	2.5	35.3922	18.02	-1.99	1570.200	0.0	284118.510	1.0
33.8348	7.02	-1.81	101031.500	1.5	396584.800	2.5	35.3930	10.01	-1.98	780.340	.5	283322.350	1.5
33.8351	7.02	-1.79	101023.800	2.5	396574.900	1.5	35.4065	9.01	-.94	341.000	1.0	282774.990	2.0
33.8360	7.02	-.83	101031.500	1.5	396574.900	1.5	35.4079	9.01	-1.01	489.900	0.0	282912.560	1.0
33.8428	18.04	-.97	765.000	1.0	296249.000	1.0	35.4139	10.01	-2.27	0.000	1.5	282375.330	1.5
33.8914	20.03	-1.01	3115.000	.5	298175.000	1.5	35.4223	12.04	-.66	2519.000	0.0	284827.000	1.0
33.9009	18.04	-.82	765.000	1.0	295742.000	0.0	35.4301	9.01	-2.84	341.000	1.0	282586.510	2.0
33.9718	11.05	-.50	1040223.000	1.0	1334585.000	2.0	35.4485	18.02	-4.67	0.000	2.0	282099.140	2.0
33.9718	11.05	-1.23	1040223.000	2.0	1334585.000	2.0	35.4610	18.02	-6.44	0.000	2.0	282000.260	1.0
33.9718	11.05	-2.77	1040223.000	3.0	1334585.000	2.0	35.4612	10.01	-4.89	0.000	1.5	281998.280	2.5
33.9718	11.05	-.33	1040223.000	2.0	1334585.000	3.0	35.4735	10.01	-3.35	780.340	.5	282680.650	.5
33.9718	11.05	-1.23	1040223.000	3.0	1334585.000	3.0	35.4784	13.05	-2.88	41140.000	2.0	323002.000	2.0
33.9718	11.05	-.17	1040223.000	3.0	1334585.000	4.0	35.4962	10.01	-1.37	0.000	1.5	281720.280	1.5
33.9800	20.03	-4.36	0.000	1.5	294291.000	.5	35.5120	10.01	-3.02	780.340	.5	282375.330	1.5
33.9883	18.04	-.73	2030.000	2.0	296249.000	1.0	35.5122	18.04	-2.65	16300.000	2.0	297893.000	2.0
34.1284	20.03	-1.69	0.000	1.5	293011.000	1.5	35.5123	9.03	-1.31	238297.200	1.0	519890.000	2.0
34.1334	19.04	-3.61	0.000	1.5	292968.000	.5	35.5134	8.02	.33	120025.400	3.0	401609.100	4.0
34.1635	19.04	-3.94	0.000	1.5	292710.000	2.5	35.5273	18.02	-4.25	0.000	2.0	281473.820	3.0
34.1919	9.02	-1.09	51560.600	.5	344027.580	1.5	35.5288	18.02	-5.53	0.000	2.0	281461.970	2.0
34.1920	9.02	-1.74	51561.400	1.5	344027.580	1.5	35.5303	8.02	-.73	120025.400	3.0	401475.400	3.0
34.1924	9.02	-.83	51561.400	1.5	344024.170	2.5	35.5327	12.04	-.56	1780.000	1.0	283211.000	2.0
34.2350	26.04	-6.03	419.000	2.0	292518.000	3.0	35.5337	8.02	-3.13	120052.600	2.0	401475.400	3.0
34.2802	26.04	-6.77	804.000	3.0	292518.000	3.0	35.5425	8.02	-2.28	120025.400	3.0	401379.000	2.0
34.2897	26.04	-5.24	804.000	3.0	292437.000	4.0	35.5451	10.01	-1.66	0.000	1.5	281332.550	.5
34.3203	20.03	-2.67	0.000	1.5	291373.000	2.5	35.5459	8.02	-4.03	120052.600	2.0	401379.000	2.0
34.3368	26.04	-6.06	1285.000	4.0	292518.000	3.0	35.5466	8.02	-4.57	120058.500	1.0	401379.000	2.0
34.3435	20.03	-2.69	3115.000	.5	294291.000	.5	35.5566	9.03	-1.51	238297.200	1.0	519539.000	1.0
34.3463	26.04	-5.62	1285.000	4.0	292437.000	4.0	35.5655	10.01	-.69	0.000	1.5	281171.380	2.5
34.3636	26.04	-4.51	1285.000	4.0	292291.000	5.0	35.5816	9.03	-1.41	238297.200	1.0	519341.000	0.0
34.3892	9.02	-.53	34087.400	2.5	324876.720	1.5	35.5839	10.01	-1.34	0.000	1.5	281025.960	2.5
34.3912	19.04	-5.47	0.000	1.5	290772.000	1.5	35.5841	19.04	-5.99	0.000	1.5	281024.000	1.5
34.3934	9.02	-1.52	34123.200	1.5	324876.720	1.5	35.5885	10.01	-1.14	0.000	1.5	280989.530	1.5
34.4389	9.02	-.78	34123.200	1.5	324492.550	.5	35.5889	18.02	-4.10	1112.400	1.0	282099.140	2.0
34.4639	8.02	-4.79	60312.100	2.0	350302.300	2.0	35.5939	10.01	-2.58	0.000	1.5	280947.100	1.5
34.4951	20.03	-2.82	3115.000	.5	293011.000	1.5	35.5948	10.01	-1.02	780.340	.5	281720.280	1.5
34.5314	8.02	-.30	43186.000	0.0	332777.100	1.0	35.6014	18.02	-3.48	1112.400	1.0	282000.260	1.0
34.5405	19.02	-2.28	0.000	1.5	289515.000	1.5	35.6080	18.02	-3.56	1112.400	1.0	281947.880	0.0
34.5448	10.02	-3.33	0.000	2.0	289479.000	1.0	35.6129	10.01	-.83	0.000	1.5	280797.260	2.5
34.5543	19.02	-1.30	0.000	1.5	289400.000	2.5	35.6165	10.01	-3.27	0.000	1.5	280768.520	.5
34.6217	10.02	-5.13	662.900	1.0	289479.000	1.0	35.6440	10.01	-1.38	780.340	.5	281332.550	.5
34.6374	8.03	-1.06	164366.400	.5	453071.500	1.5	35.6540	10.01	-1.51	0.000	1.5	280473.580	1.5
34.6550	10.02	-4.23	920.400	0.0	289479.000	1.0	35.6557	8.02	-4.17	120058.500	1.0	400518.400	0.0
34.6692	8.03	-1.34	164366.400	.5	452806.600	.5	35.6577	17.03	-2.52	32547.000	0.0	312991.000	1.0
34.7237	15.04	-1.48	88651.700	.5	376639.200	.5	35.6595	18.02	-3.43	1570.200	0.0	282000.260	1.0
34.7632	9.01	-6.96	0.000	2.0	287660.120	3.0	35.6618	8.02	-.81	120052.600	2.0	400464.700	1.0
34.8004	19.02	-1.55	2162.000	.5	289515.000	1.5	35.6625	8.02	-3.77	120058.500	1.0	400464.700	1.0
34.8198	15.04	-1.17	89446.300	1.5	376639.200	.5	35.6698	18.02	-5.11	1112.400	1.0	281461.970	2.0
34.8690	7.02	-.12	101023.800	2.5	387811.500	3.5	35.6723	8.02	-1.54	120025.400	3.0	400354.800	2.0
34.8791	7.02	-1.42	101023.800	2.5	387728.700	2.5	35.6758	8.02	-.33	120052.600	2.0	400354.800	2.0
34.8800	7.02	-.28	101031.500	1.5	387728.700	2.5	35.6765	8.02	-3.52	120058.500	1.0	400354.800	2.0
34.9167	8.02	-3.13	43186.000	0.0	329581.980	1.0	35.6800	10.01	-.92	0.000	1.5	280268.960	2.5
34.9791	24.03	-7.28	14481.000	2.5	300366.000	3.5	35.6876	10.01	-.86	780.340	.5	280989.530	1.5
34.9825	8.02	-.55	120025.400	3.0	405883.000	3.0	35.6930	10.01	-4.66	780.340	.5	280947.100	1.5
34.9858	8.02	.06	120052.600	2.0	405883.000	3.0	35.7158	10.01	-3.26	780.340	.5	280768.520	.5
34.9884	8.02	-1.46	120025.400	3.0	405834.100	2.0	35.7208	18.04	-1.67	16300.000	2.0	296249.000	1.0
34.9918	8.02	-.66	120052.600	2.0	405834.100	2.0	35.7527	24.03	-4.84	20667.000	2.5	300366.000	3.5
34.9953	8.02	-1.83	120052.600	2.0	405805.100	1.0	35.7535	10.01	-1.27	780.340	.5	280473.580	1.5
35.0460	12.05	-.17	56340.000	1.5	341679.000	1.5	35.7880	10.01	-3.67	0.000	1.5	279422.890	.5
35.0486	12.05	-1.19	56361.000	2.5	341679.000	1.5	35.7955	10.04	-.82	0.000	0.0	279365.000	1.0
35.0501	12.05	-1.24	56340.000	1.5	341646.000	2.5	35.7969	20.02	.62	0.000	0.0	279353.640	1.0
35.0506	24.03	-5.80	15064.000	3.5	300366.000	3.5	35.8006	10.01	-3.12	0.000	1.5	279324.890	1.5
35.0527	12.05	.01	56361.000	2.5	341646.000	2.5	35.8053	24.03	-9.56	21078.000	4.5	300366.000	3.5
35.0790	11.05	-4.01	35518.000	2.0	320589.000	1.0	35.8087	24.03	-6.86	21078.000	4.5	300340.000	5.5
35.0877	18.04	-.15	16300.000	2.0	301300.000	1.0	35.8142	10.01	-3.37	0.000	1.5	279218.660	2.5
35.0936	24.03	-6.86	15414.000	4.5	300366.000	3.5	35.8179	10.03	.02	41262.000	1.5	320452.000	.5
35.0968	24.03	-4.16	15414.000	4.5	300340.0								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
36.1560	14.03	-1.72	0.000	.5	276579.030	1.5	37.3916	17.04	-1.13	86538.000	1.5	353978.000	1.5
36.1659	14.03	-2.02	0.000	.5	276503.670	.5	37.3924	11.05	-1.70	873287.000	2.0	1140721.000	3.0
36.2323	8.01	-6.01	0.000	1.5	275997.000	.5	37.3960	18.02	-2.50	1570.200	0.0	268978.800	1.0
36.2383	8.01	-5.71	0.000	1.5	275951.000	1.5	37.3972	9.01	-2.47	0.000	2.0	267399.940	1.0
36.2383	8.01	-4.75	0.000	1.5	275951.000	2.5	37.4006	8.02	-1.14	0.000	0.0	267375.650	1.0
36.2454	10.01	-1.47	780.340	.5	276677.130	.5	37.4036	26.04	-4.76	24937.000	4.0	292291.000	5.0
36.2654	11.05	-4.21	74434.000	0.0	350179.000	1.0	37.4076	8.02	-0.58	306.900	2.0	267632.590	2.0
36.2821	7.02	-0.27	57192.100	.5	332810.000	1.5	37.4165	8.02	-1.27	113.900	1.0	267375.650	1.0
36.2830	8.01	-6.42	0.000	1.5	275611.000	.5	37.4198	7.02	-0.14	0.000	.5	267238.500	1.5
36.2830	8.01	-5.72	0.000	1.5	275611.000	1.5	37.4240	26.04	-0.41	25229.000	5.0	292437.000	4.0
36.2839	7.02	-0.27	57192.100	.5	332796.600	.5	37.4331	8.02	-1.14	113.900	1.0	267257.290	0.0
36.2871	7.02	.14	57252.000	1.5	332832.000	2.5	37.4352	26.04	-2.78	804.000	3.0	267932.000	4.0
36.2900	7.02	-0.16	57252.000	1.5	332810.000	1.5	37.4357	8.02	-4.77	187049.400	2.0	454174.000	3.0
36.2918	7.02	-0.96	57252.000	1.5	332796.600	.5	37.4434	7.02	.11	174.360	1.5	267244.400	2.5
36.2941	7.02	.42	57333.200	2.5	332860.300	3.5	37.4435	8.02	-1.05	306.900	2.0	267375.650	1.0
36.2978	7.02	-0.23	57333.200	2.5	332832.000	2.5	37.4442	7.02	-0.84	174.360	1.5	267238.500	1.5
36.3007	7.02	-1.19	57333.200	2.5	332810.000	1.5	37.4445	26.04	-1.79	25229.000	5.0	292291.000	5.0
36.3742	8.01	-6.72	0.000	1.5	274920.000	1.5	37.4449	9.01	-1.81	361.000	1.0	267399.940	1.0
36.3742	8.01	-5.76	0.000	1.5	274920.000	2.5	37.4609	9.02	-6.46	0.000	1.5	266944.700	.5
36.3864	16.05	-2.13	247420.000	1.5	522248.000	1.5	37.4658	9.01	-1.61	489.900	0.0	267399.940	1.0
36.3906	16.05	-1.17	247452.000	2.5	522248.000	1.5	37.4662	17.04	-0.63	86538.000	1.5	353445.000	.5
36.4153	16.05	-1.43	247420.000	1.5	522030.000	.5	37.4704	18.02	-3.99	0.000	2.0	266877.500	3.0
36.4287	26.04	-1.56	419.000	2.0	274928.000	3.0	37.4756	20.03	-0.08	0.000	1.5	266840.000	2.5
36.4798	26.04	-0.74	804.000	3.0	274928.000	3.0	37.4772	26.04	-3.34	419.000	2.0	267248.000	3.0
36.4880	9.03	-0.88	228908.000	2.0	502970.400	3.0	37.4831	9.01	-6.00	20873.400	2.0	287660.120	3.0
36.4975	26.04	-1.25	145.000	1.0	274136.000	2.0	37.4863	26.04	-0.32	25527.000	6.0	292291.000	5.0
36.5304	9.03	-1.01	228908.000	2.0	502652.400	2.0	37.4870	19.04	-0.76	24012.700	1.5	290772.000	1.5
36.5341	26.04	-0.67	419.000	2.0	274136.000	2.0	37.4921	26.02	-4.66	0.000	2.0	266722.800	2.0
36.5440	26.04	-1.13	0.000	0.0	273643.000	1.0	37.5028	18.04	-2.15	1285.000	4.0	267932.000	4.0
36.5440	26.04	-0.18	1285.000	4.0	274928.000	3.0	37.5098	17.04	-0.59	87381.000	2.5	353978.000	1.5
36.5605	10.04	-5.65	30293.000	2.0	303812.000	1.0	37.5147	9.02	-5.83	0.000	1.5	266561.850	1.5
36.5627	9.03	-1.24	228908.000	2.0	502411.000	1.0	37.5166	9.01	-3.88	0.000	2.0	266548.480	3.0
36.5633	26.04	-0.77	145.000	1.0	273643.000	1.0	37.5203	19.04	-0.47	24249.500	2.5	290772.000	1.5
36.5752	19.03	-2.10	0.000	2.0	273409.000	2.0	37.5236	9.01	-1.48	0.000	2.0	266498.740	1.0
36.5855	26.04	-0.47	804.000	3.0	274136.000	2.0	37.5263	26.04	-4.39	145.000	1.0	266625.000	2.0
36.5877	9.02	-1.41	51560.600	.5	324876.720	1.5	37.5299	9.01	-0.46	0.000	2.0	266453.880	2.0
36.5878	9.02	-0.73	51561.400	1.5	324876.720	1.5	37.5313	26.04	-3.01	804.000	3.0	267248.000	3.0
36.6000	26.04	-0.89	419.000	2.0	273643.000	1.0	37.5431	9.01	-0.63	0.000	2.0	266360.600	1.0
36.6193	8.02	-4.40	0.000	0.0	273080.070	1.0	37.5558	9.01	-2.31	0.000	2.0	266270.110	2.0
36.6346	8.02	-4.28	113.900	1.0	273080.070	1.0	37.5649	26.04	-4.00	419.000	2.0	266625.000	2.0
36.6392	9.02	-1.12	51560.600	.5	324492.550	.5	37.5692	9.01	-1.18	361.000	1.0	266516.430	0.0
36.6393	9.02	-1.41	51561.400	1.5	324492.550	.5	37.5717	9.01	-0.96	361.000	1.0	266498.740	1.0
36.6605	8.02	-4.59	306.900	2.0	273080.070	1.0	37.5780	9.01	-1.44	361.000	1.0	266453.880	2.0
36.6850	8.03	-1.74	180480.800	.5	453071.500	1.5	37.5866	26.04	-3.83	26666.000	2.0	292518.000	3.0
36.7178	8.03	-1.06	180724.200	1.5	453071.500	1.5	37.5912	9.01	-1.26	361.000	1.0	266360.600	1.0
36.7207	8.03	-1.47	180480.800	.5	452806.600	.5	37.5927	9.01	-1.19	489.900	0.0	266498.740	1.0
36.7536	8.03	-1.77	180724.200	1.5	452806.600	.5	37.5992	26.04	-3.34	1285.000	4.0	267248.000	3.0
36.7555	18.02	-1.48	0.000	2.0	272068.450	1.0	37.6040	9.01	-2.41	361.000	1.0	266270.110	2.0
36.7565	11.04	-0.40	297917.000	1.5	569978.000	.5	37.6111	23.03	-3.05	0.000	2.0	265879.200	1.0
36.7669	15.04	-3.18	204197.100	1.5	476181.000	1.5	37.6111	23.03	-3.89	0.000	2.0	265879.200	2.0
36.7669	15.04	-2.49	204197.100	1.5	476181.000	.5	37.6123	9.01	-1.98	489.900	0.0	266360.600	1.0
36.7684	15.04	-2.23	204208.300	2.5	476181.000	1.5	37.6130	23.03	-2.56	734.700	4.0	266600.300	5.0
36.8004	19.03	-0.27	1673.000	1.0	273409.000	2.0	37.6143	8.01	-1.43	0.000	1.5	265856.000	2.5
36.8091	18.02	-1.83	0.000	2.0	271672.080	1.0	37.6193	26.04	-3.95	804.000	3.0	266625.000	2.0
36.8313	18.02	-1.35	0.000	2.0	271507.880	2.0	37.6289	26.04	-2.20	26765.000	2.0	292518.000	3.0
36.8707	25.04	-6.17	1406.000	4.5	272624.000	5.5	37.6374	11.01	-2.09	0.000	0.0	265693.290	1.0
36.8990	16.03	-1.58	0.000	.5	271010.400	.5	37.6395	9.02	-4.84	51561.400	1.5	317239.970	2.5
36.9064	18.02	-1.73	1112.400	1.0	272068.450	1.0	37.6404	26.04	-1.92	26846.000	3.0	292518.000	3.0
36.9484	25.04	-6.29	827.000	3.5	271475.000	4.5	37.6491	18.02	-4.21	1112.400	1.0	266722.800	2.0
36.9570	8.02	-4.76	187049.400	2.0	457634.000	2.0	37.6519	26.04	-2.56	26846.000	3.0	292437.000	4.0
36.9571	18.02	-1.93	1112.400	1.0	271696.220	0.0	37.6547	7.02	-4.31	131003.500	.5	396574.900	1.5
36.9604	18.02	-2.00	1112.400	1.0	271672.080	1.0	37.6572	23.03	-2.52	325.400	3.0	265879.200	2.0
36.9688	18.02	-2.24	1570.200	0.0	272068.450	1.0	37.6584	26.04	-2.39	26973.000	4.0	292518.000	3.0
36.9717	11.04	-0.15	297883.000	2.5	568360.000	1.5	37.6624	9.01	-3.42	0.000	2.0	265516.570	1.0
36.9764	11.04	-1.10	297917.000	1.5	568360.000	1.5	37.6650	9.01	-2.28	0.000	2.0	265498.410	2.0
36.9829	18.02	-1.92	1112.400	1.0	271507.880	2.0	37.6687	9.01	-0.49	0.000	2.0	265472.310	3.0
37.0165	10.04	-5.49	414.000	1.0	270564.000	2.0	37.6693	25.04	-6.29	0.000	1.5	265468.000	2.5
37.0222	18.02	-5.29	14010.000	2.0	284118.510	1.0	37.6693	8.01	-1.75	0.000	1.5	265468.200	.5
37.0231	18.02	-1.96	1570.200	0.0	271672.080	1.0	37.6693	8.01	-3.63	0.000	1.5	265468.200	1.5
37.0252	18.02	-2.97	14010.000	2.0	284096.260	2.0	37.6699	26.04	-2.02	26973.000	4.0	292437.000	4.0
37.0276	25.04	-6.93	1406.000	4.5	271475.000	4.5	37.6745	8.01	-3.73	0.000	1.5	265431.500	2.5
37.0288	16.03	-1.28	950.200	1.5	271010.400	.5	37.6847	9.02	-4.17	51561.400	1.5	316920.990	1.5
37.0494	18.02	-3.61	14010.000	2.0	283919.780	3.0	37.6906	26.04	-2.49	26973.000	4.0	292291.000	5.0
37.0732	9.01	-3.14	0.000	2.0	269736.790	1.0	37.6948	9.01	-2.93	0.000	2.0	265288.870	3.0
37.0733	9.01	-1.96	0.000	2.0	269735.890	2.0	37.6972	23.03	-2.13	0.000	2.0	265271.600	3.0
37.0736	9.01	-1.22	0.000	2.0	269733.790	3.0	37.7045	8.01	-1.44	0.000	1.5	265220.300	1.5
37.1124	10.04	-5.02	1112.400	2.0	270564.000	2.0	37.7045	8.01	-1.78	0.000	1.5	265220.300	2.5
37.1201	9.01	-1.97	361.000	1.0	269736.790	1.0	37.7065	25.04	-6.50	349.000	2.5	265555.000	3.5
37.1202	9.01	-1.49	361.000	1.0	269735.890	2.0	37.7109	9.01	-1.82	361.000	1.0	265516.570	1.0
37.1406	9.01	-1.84	489.900	0.0	269736.790	1.0	37.7134	9.01	-0.68	361.000	1.0	265498.410	2.0
37.1694	6.02	-0.57	52390.000	0.0	321428.510	0.0	37.7147	9.02	-4.58	5			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
37.8354	14.03	-2.06	71748.640	1.5	336051.550	2.5	38.4768	26.04	-2.12	1285.000	4.0	261182.000	3.0
37.8354	14.03	-3.01	71748.640	1.5	336051.550	1.5	38.4839	26.04	-1.62	145.000	1.0	259994.000	1.0
37.8548	23.03	-1.37	734.700	4.0	264902.200	3.0	38.4953	19.03	-2.53	1573.000	1.0	261445.000	1.0
37.8562	23.03	-4.56	325.400	3.0	264482.800	2.0	38.4957	26.04	-2.26	1285.000	4.0	261054.000	5.0
37.8574	25.04	-4.14	1406.000	4.5	265555.000	3.5	38.5021	19.04	.16	0.000	1.5	259726.000	.5
37.8676	9.01	-2.84	0.000	2.0	264077.660	1.0	38.5024	26.04	-4.62	804.000	3.0	260528.000	4.0
37.8678	23.03	-4.45	325.400	3.0	264401.900	4.0	38.5186	26.04	-2.30	804.000	3.0	260419.000	2.0
37.8680	9.01	-1.67	0.000	2.0	264075.350	2.0	38.5245	26.04	-9.27	419.000	2.0	259994.000	1.0
37.8684	9.01	-9.92	0.000	2.0	264072.620	3.0	38.5297	26.04	-1.36	419.000	2.0	259959.000	3.0
37.8928	23.03	-2.24	0.000	2.0	263902.300	3.0	38.5673	8.01	-7.26	0.000	1.5	259287.000	1.5
37.8966	24.03	-6.88	36490.000	3.5	300366.000	3.5	38.5674	8.01	-6.31	0.000	1.5	259286.200	2.5
37.8993	23.03	-3.39	734.700	4.0	264591.900	5.0	38.5689	19.04	-2.98	0.000	1.5	259276.000	1.5
37.9029	26.04	-1.53	1285.000	4.0	265117.000	5.0	38.5738	26.04	-4.55	1285.000	4.0	260528.000	4.0
37.9074	11.05	-9.97	872577.000	1.0	1136378.000	2.0	38.5750	26.04	-2.20	145.000	1.0	259380.000	2.0
37.9093	23.03	-4.44	325.400	3.0	264113.100	4.0	38.5795	19.04	-2.91	0.000	1.5	259205.000	1.5
37.9118	19.02	-2.63	0.000	1.5	263770.000	.5	38.5869	26.04	-4.42	804.000	3.0	259959.000	3.0
37.9166	9.01	-1.67	341.000	1.0	264077.660	1.0	38.5874	14.03	-2.45	71287.540	.5	330439.660	.5
37.9169	9.01	-1.19	341.000	1.0	264075.350	2.0	38.5922	19.03	-4.56	2325.000	0.0	261445.000	1.0
37.9266	23.03	-1.17	734.700	4.0	264401.900	4.0	38.5961	8.02	.13	142381.700	2.0	401475.400	3.0
37.9278	19.03	-2.07	0.000	2.0	263659.000	1.0	38.6104	8.02	-7.77	142381.700	2.0	401379.000	2.0
37.9304	26.04	-2.22	804.000	3.0	264445.000	4.0	38.6159	26.04	-4.55	419.000	2.0	259380.000	2.0
37.9308	10.02	.30	25840.800	2.0	289479.000	1.0	38.6203	6.02	-4.59	0.000	0.0	258931.184	0.0
37.9351	23.03	-1.19	0.000	2.0	263608.300	3.0	38.6263	17.02	-5.40	0.000	1.5	258890.800	1.5
37.9373	23.03	-5.52	0.000	2.0	263593.000	2.0	38.6269	26.04	-1.27	0.000	0.0	258887.000	1.0
37.9380	9.01	-1.54	489.900	0.0	264077.660	1.0	38.6271	17.02	-4.60	0.000	1.5	258885.800	2.5
37.9396	23.03	-4.41	325.400	3.0	263902.300	3.0	38.6485	26.04	-1.05	145.000	1.0	258887.000	1.0
37.9505	8.02	-1.39	142381.700	2.0	405883.000	3.0	38.6562	14.03	-2.15	71748.640	1.5	330439.660	.5
37.9511	23.03	-2.23	325.400	3.0	263822.400	4.0	38.6587	26.04	-1.13	1285.000	4.0	259959.000	3.0
37.9518	26.04	-3.03	419.000	2.0	263911.000	3.0	38.6695	8.01	-4.64	0.000	1.5	258601.700	1.5
37.9575	8.02	-8.86	142381.700	2.0	405834.100	2.0	38.6733	26.04	-4.70	804.000	3.0	259380.000	2.0
37.9577	8.02	-4.78	142382.800	1.0	405834.100	2.0	38.6780	26.04	-4.40	804.000	3.0	259349.000	4.0
37.9612	23.03	.18	734.700	4.0	264161.800	5.0	38.6895	26.04	-4.59	419.000	2.0	258887.000	1.0
37.9617	8.02	-1.52	142381.700	2.0	405805.100	1.0	38.6915	11.05	-1.10	872577.000	1.0	1131032.000	2.0
37.9639	8.02	-5.59	142396.900	0.0	405805.100	1.0	38.6984	8.01	-5.26	0.000	1.5	258408.600	.5
37.9669	18.04	-7.76	37913.000	0.0	301300.000	1.0	38.7093	18.04	-2.33	37913.000	0.0	296249.000	1.0
37.9682	23.03	-3.33	734.700	4.0	264113.100	4.0	38.7164	23.03	-3.72	0.000	2.0	258288.800	1.0
37.9720	9.01	-2.01	20873.400	2.0	284225.190	1.0	38.7198	26.04	-4.33	419.000	2.0	258685.000	3.0
37.9789	24.03	-6.20	37062.000	2.5	300366.000	3.5	38.7353	7.03	-4.83	130695.000	0.0	388857.451	0.0
37.9820	23.03	-9.97	325.400	3.0	263608.300	3.0	38.7393	8.02	-1.18	142382.800	1.0	400518.400	0.0
37.9842	23.03	-1.56	325.400	3.0	263593.000	2.0	38.7463	10.03	-3.14	41262.000	1.5	299351.000	.5
37.9986	23.03	-1.92	734.700	4.0	263902.300	3.0	38.7472	8.02	-1.91	142381.700	2.0	400464.700	1.0
37.9997	26.04	-2.38	1285.000	4.0	264445.000	4.0	38.7474	8.02	-7.71	142382.800	1.0	400464.700	1.0
38.0074	26.04	-3.04	804.000	3.0	263911.000	3.0	38.7495	8.02	-9.94	142396.900	0.0	400464.700	1.0
38.0097	11.05	-5.56	873287.000	2.0	1136378.000	2.0	38.7501	26.04	.01	1285.000	4.0	259349.000	4.0
38.0101	23.03	-1.03	734.700	4.0	263822.400	4.0	38.7509	18.02	-4.04	14010.000	2.0	272068.450	1.0
38.0108	11.02	-5.54	1366.000	.5	264449.000	.5	38.7544	10.03	-4.42	62417.000	.5	320452.000	.5
38.0411	23.03	-1.94	734.700	4.0	263608.300	3.0	38.7553	10.03	-6.67	62423.000	1.5	320452.000	.5
38.0473	19.03	-4.41	0.000	2.0	262831.000	2.0	38.7573	11.05	.11	996734.000	3.0	1254750.000	4.0
38.0477	19.02	-1.92	0.000	1.5	262828.000	1.5	38.7613	26.04	-4.48	145.000	1.0	258134.000	2.0
38.0538	23.03	-6.66	325.400	3.0	263111.400	4.0	38.7637	8.02	-2.15	142381.700	2.0	400354.800	2.0
38.0665	26.04	-4.49	29820.000	3.0	292518.000	3.0	38.7639	8.02	-4.49	142382.800	1.0	400354.800	2.0
38.0770	26.04	-4.01	1285.000	4.0	263911.000	3.0	38.7651	8.01	-1.88	0.000	1.5	257963.800	2.5
38.0783	26.04	-1.62	29820.000	3.0	292437.000	4.0	38.7693	11.05	-4.04	996011.000	2.0	1253947.000	3.0
38.0804	11.05	-1.68	996011.000	2.0	1258613.000	1.0	38.7735	30.02	-1.36	0.000	0.0	257908.200	1.0
38.0804	11.05	-1.02	996011.000	2.0	1258613.000	2.0	38.7776	26.04	-4.52	804.000	3.0	258685.000	3.0
38.0804	11.05	-1.67	996011.000	2.0	1258613.000	3.0	38.7800	19.04	-5.18	0.000	1.5	257865.000	2.5
38.0900	9.01	-2.23	20873.400	2.0	283409.650	3.0	38.7901	8.01	-2.04	0.000	1.5	257797.900	1.5
38.0951	9.01	-1.62	20873.400	2.0	283374.510	3.0	38.7979	26.04	-1.88	0.000	0.0	257746.000	1.0
38.0952	9.03	-2.70	257390.000	1.0	519890.000	2.0	38.7980	11.05	-1.65	873287.000	2.0	1131032.000	2.0
38.0971	19.04	-1.87	0.000	1.5	262487.000	2.5	38.8026	26.04	-1.51	419.000	2.0	258134.000	2.0
38.0975	9.01	-1.39	20873.400	2.0	283357.700	2.0	38.8058	8.01	-2.33	0.000	1.5	257693.700	.5
38.0981	9.01	-4.03	20873.400	2.0	283353.780	1.0	38.8062	23.03	-5.89	0.000	2.0	257690.800	3.0
38.1130	5.03	-4.48	635801.000	0.0	898178.666	0.0	38.8105	18.02	-4.01	14010.000	2.0	271672.080	1.0
38.1131	23.03	-1.45	734.700	4.0	263111.400	4.0	38.8197	26.04	-2.43	145.000	1.0	257746.000	1.0
38.1144	26.04	-1.21	30150.000	4.0	292518.000	3.0	38.8250	30.02	-2.18	0.000	0.0	257566.100	1.0
38.1262	26.04	-3.37	30150.000	4.0	292437.000	4.0	38.8319	15.03	-1.25	0.000	0.0	257520.200	1.0
38.1364	25.04	-2.87	349.000	2.5	262566.000	3.5	38.8353	18.02	-3.92	14010.000	2.0	271507.880	2.0
38.1462	9.03	-1.47	257390.000	1.0	519539.000	1.0	38.8464	25.04	-5.50	0.000	1.5	257424.000	1.5
38.1474	26.04	-1.65	30150.000	4.0	292291.000	5.0	38.8500	26.04	-4.77	1285.000	4.0	258685.000	3.0
38.1572	9.01	-1.38	20873.400	2.0	282946.970	2.0	38.8515	9.03	-4.51	0.000	0.0	257390.000	1.0
38.1622	9.01	-3.28	20873.400	2.0	282912.540	1.0	38.8553	23.03	-4.32	325.400	3.0	257690.800	3.0
38.1668	26.04	-1.12	30429.000	5.0	292437.000	4.0	38.8564	11.05	-4.93	996011.000	2.0	1253369.000	2.0
38.1700	19.03	-4.42	1673.000	1.0	263659.000	1.0	38.8578	18.03	-3.63	0.000	1.5	257348.890	1.5
38.1751	9.03	-1.33	257390.000	1.0	519341.000	0.0	38.8600	10.03	-4.70	62417.000	.5	319751.000	1.5
38.1823	9.01	-1.24	20873.400	2.0	282774.990	2.0	38.8606	26.04	-4.86	804.000	3.0	258134.000	2.0
38.1856	11.05	-1.66	996734.000	3.0	1258613.000	2.0	38.8609	10.03	-4.01	62423.000	1.5	319751.000	1.5
38.1856	11.05	-7.76	996734.000	3.0	1258613.000	3.0	38.8611	26.04	-1.37	419.000	2.0	257746.000	1.0
38.1881	26.04	-2.23	30429.000	5.0	292291.000	5.0	38.8783	11.05	-9.94	996734.000	3.0	1253947.000	3.0
38.2060	25.04	-1.61	827.000	3.5	262566.000	2.5	38.8856	9.03	-4.65	225.200	1.0	257390.000	1.0
38.2098	9.01	-1.70	20873.400	2.0	282586.510	2.0	38.8888	23.03	-5.51	0.000	2.0	257143.200	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
39.0737	23.03	-2.46	325.400	3.0	256251.700	4.0	39.6164	23.03	-0.92	13458.300	2.0	265879.200	1.0
39.0782	8.01	-3.27	0.000	1.5	255897.200	2.5	39.6164	23.03	-0.34	13458.300	2.0	265879.200	2.0
39.0843	26.04	-2.48	1285.000	4.0	257142.000	5.0	39.6300	26.04	-5.06	26466.000	2.0	278800.000	3.0
39.0860	16.05	-0.41	107137.000	1.5	362983.000	0.5	39.6371	18.02	-0.86	0.000	2.0	252289.020	3.0
39.0865	8.01	-4.08	0.000	1.5	255843.100	1.5	39.6396	18.02	-2.79	0.000	2.0	252272.920	1.0
39.0979	8.02	-3.65	197086.700	1.0	452855.000	2.0	39.6426	18.02	-1.62	0.000	2.0	252253.690	2.0
39.1011	23.03	-2.44	0.000	2.0	255747.600	3.0	39.6770	26.04	-0.71	26765.000	2.0	278800.000	3.0
39.1202	8.01	-4.70	0.000	1.5	255622.400	0.5	39.6869	18.03	-0.35	0.000	1.5	251972.000	2.5
39.1216	14.03	-1.90	71748.640	1.5	327361.970	2.5	39.6898	26.04	-1.48	26846.000	3.0	278800.000	3.0
39.1216	14.03	-2.85	71748.640	1.5	327361.970	1.5	39.6988	23.03	-0.60	13122.800	0.0	265019.700	1.0
39.1363	23.03	-1.28	734.700	4.0	256251.700	4.0	39.7096	23.03	-0.29	13239.200	1.0	265067.400	2.0
39.1446	23.03	-1.52	0.000	2.0	255463.300	2.0	39.7098	26.04	-3.88	26973.000	4.0	278800.000	3.0
39.1465	19.03	-0.44	1673.000	1.0	257124.000	1.0	39.7120	23.03	-0.29	13458.300	2.0	265271.600	3.0
39.1473	23.03	-3.99	0.000	2.0	255445.500	3.0	39.7171	23.03	-0.95	13239.200	1.0	265019.700	1.0
39.1509	23.03	-1.39	325.400	3.0	255747.600	3.0	39.7442	23.03	-1.39	13458.300	2.0	265067.400	2.0
39.1533	11.05	-2.95	873287.000	2.0	1128693.000	2.0	39.7517	23.03	-2.87	13458.300	2.0	265019.700	1.0
39.1558	16.03	-3.24	0.000	0.5	255389.800	1.5	39.7703	23.03	-0.53	13458.300	2.0	264902.200	3.0
39.1581	26.04	-2.72	804.000	3.0	256179.000	4.0	39.7884	8.01	-2.77	26810.700	2.5	278140.000	1.5
39.1694	8.01	-4.74	0.000	1.5	255301.300	2.5	39.7884	8.01	-1.61	26810.700	2.5	278140.000	2.5
39.1725	8.01	-4.03	0.000	1.5	255281.400	0.5	39.7916	8.01	-1.80	26830.500	1.5	278140.000	1.5
39.1892	8.01	-3.47	0.000	1.5	255172.500	1.5	39.7916	8.01	-2.76	26830.500	1.5	278140.000	2.5
39.1907	8.01	-1.07	0.000	1.5	255162.600	0.5	39.8020	23.03	-1.44	13239.200	1.0	264482.800	2.0
39.1931	23.03	-3.00	0.000	2.0	255146.800	2.0	39.8051	8.01	-9.02	0.000	1.5	251224.100	2.5
39.1940	8.01	-0.80	0.000	1.5	255140.900	1.5	39.8152	18.02	-1.63	1112.400	1.0	252272.920	1.0
39.1941	17.02	-4.85	0.000	1.5	255140.400	2.5	39.8182	18.02	-1.15	1112.400	1.0	252253.690	2.0
39.1945	23.03	-3.63	325.400	3.0	255463.300	2.0	39.8190	4.02	-0.52	981187.000	0.0	1232323.392	0.0
39.1972	23.03	-2.22	325.400	3.0	255445.500	3.0	39.8367	23.03	-2.94	13458.300	2.0	264482.800	2.0
39.1996	8.01	-0.68	0.000	1.5	255104.600	2.5	39.8384	19.04	-0.48	39758.000	0.5	290772.000	1.5
39.2000	26.04	-3.06	24937.000	4.0	280039.000	5.0	39.8555	18.03	-0.51	0.000	1.5	250906.600	1.5
39.2137	23.03	-3.34	734.700	4.0	255747.600	3.0	39.8608	25.04	-2.77	827.000	3.5	251700.000	4.5
39.2153	18.02	-5.24	14010.000	2.0	269012.800	2.0	39.8633	19.02	-0.09	0.000	1.5	250857.000	0.5
39.2171	18.02	-4.22	14010.000	2.0	269000.800	3.0	39.8642	18.02	-5.26	33267.000	0.0	284118.510	1.0
39.2177	26.04	-3.16	419.000	2.0	255406.000	3.0	39.8879	18.02	-1.50	1570.200	0.0	252272.920	1.0
39.2205	18.02	-3.10	14010.000	2.0	268978.800	1.0	39.8885	7.02	0.21	145876.100	0.5	396574.900	1.5
39.2280	23.03	-2.44	10959.300	2.0	265879.200	1.0	39.8891	19.04	0.13	40077.000	1.5	290772.000	1.5
39.2280	23.03	-3.59	10959.300	2.0	265879.200	2.0	39.9042	25.04	-3.19	349.000	2.5	250949.000	3.5
39.2318	8.01	-1.84	0.000	1.5	254895.200	1.5	39.9045	7.02	0.46	145986.500	1.5	396584.800	2.5
39.2318	8.01	-1.26	0.000	1.5	254895.200	2.5	39.9061	7.02	-0.49	145986.500	1.5	396574.900	1.5
39.2320	26.04	-3.26	1285.000	4.0	256179.000	4.0	39.9289	12.05	-0.69	0.000	1.5	250445.000	0.5
39.2428	23.03	-1.28	0.000	2.0	254824.100	1.0	39.9291	23.03	-1.92	13458.300	2.0	263902.300	3.0
39.2432	17.04	-0.50	1492.000	1.5	256313.000	0.5	39.9435	23.03	-2.17	13239.200	1.0	263593.000	2.0
39.2432	23.03	-1.12	325.400	3.0	255146.800	2.0	39.9530	25.04	-2.11	1406.000	4.5	251700.000	4.5
39.2449	26.04	-2.39	25229.000	5.0	280039.000	5.0	39.9649	18.03	-0.80	0.000	1.5	250219.450	0.5
39.2466	19.03	-1.43	2325.000	0.0	257124.000	1.0	39.9760	23.03	-1.91	13458.300	2.0	263608.300	3.0
39.2602	23.03	-0.94	734.700	4.0	255445.500	3.0	39.9785	23.03	-2.91	13458.300	2.0	263593.000	2.0
39.2644	17.02	-3.98	0.000	1.5	254683.400	2.5	39.9805	25.04	-2.92	827.000	3.5	250949.000	3.5
39.2680	26.04	-3.82	145.000	1.0	254805.000	2.0	40.0014	26.04	-5.28	24937.000	4.0	274928.000	3.0
39.2753	17.02	-4.77	0.000	1.5	254612.700	1.5	40.0178	26.04	-2.05	30150.000	4.0	280039.000	5.0
39.2770	26.04	-3.34	804.000	3.0	255406.000	3.0	40.0501	26.04	-2.81	29820.000	3.0	279507.000	4.0
39.2819	26.04	-3.12	24937.000	4.0	279507.000	4.0	40.0625	26.04	-0.49	30429.000	5.0	280039.000	5.0
39.2909	26.04	-0.03	25527.000	6.0	280039.000	5.0	40.0659	26.04	-2.85	24054.000	0.0	273643.000	1.0
39.2975	23.03	-2.17	0.000	2.0	254468.800	2.0	40.0673	11.04	-1.13	48337.000	2.5	297917.000	1.5
39.3021	16.03	-3.13	950.200	1.5	255389.800	2.5	40.0676	12.05	-0.39	0.000	1.5	249578.000	1.5
39.3021	16.03	-4.08	950.200	1.5	255389.800	1.5	40.0713	11.04	-0.16	48362.000	1.5	297917.000	1.5
39.3103	26.04	-3.79	419.000	2.0	254805.000	2.0	40.0728	11.04	0.03	48337.000	2.5	297883.000	2.5
39.3142	19.03	-1.67	1673.000	1.0	256034.000	2.0	40.0733	25.04	-3.89	1406.000	4.5	250949.000	3.5
39.3217	23.03	-0.38	10959.300	2.0	265271.600	3.0	40.0768	11.04	-1.16	48362.000	1.5	297883.000	2.5
39.3270	26.04	-0.15	25229.000	5.0	279507.000	4.0	40.1031	26.04	-0.65	30150.000	4.0	279507.000	4.0
39.3326	25.04	-1.18	18382.000	4.5	272624.000	5.5	40.1338	8.01	-7.41	26830.500	1.5	275997.000	0.5
39.3479	23.03	-2.21	325.400	3.0	254468.800	2.0	40.1344	26.04	-3.02	24973.000	1.0	274136.000	2.0
39.3513	26.04	-4.45	1285.000	4.0	255406.000	3.0	40.1380	8.01	-3.26	26810.700	2.5	275951.000	1.5
39.3533	23.03	-1.59	10959.300	2.0	265067.400	2.0	40.1380	8.01	-2.15	26810.700	2.5	275951.000	2.5
39.3607	23.03	-3.75	10959.300	2.0	265019.700	1.0	40.1412	8.01	-2.33	26830.500	1.5	275951.000	1.5
39.3675	9.01	-0.66	0.000	2.0	254016.480	3.0	40.1412	8.01	-3.57	26830.500	1.5	275951.000	2.5
39.3677	9.01	-1.41	0.000	2.0	254015.400	2.0	40.1481	26.04	-2.70	30429.000	5.0	279507.000	4.0
39.3678	9.01	-2.58	0.000	2.0	254014.830	1.0	40.1490	10.04	-4.28	30293.000	2.0	279365.000	1.0
39.3699	26.04	-4.57	804.000	3.0	254805.000	2.0	40.1639	26.04	-0.75	29820.000	3.0	278800.000	3.0
39.3789	23.03	-0.24	10959.300	2.0	264902.200	3.0	40.1708	12.04	-4.46	35890.000	2.0	284827.000	1.0
39.3913	26.04	-0.23	24937.000	4.0	278800.000	3.0	40.1787	25.04	-1.14	16580.000	1.5	265468.000	2.5
39.3975	10.03	-5.24	0.000	1.5	253823.000	1.5	40.1827	9.01	-7.08	20873.400	2.0	269736.790	1.0
39.4000	10.03	-4.30	0.000	1.5	253807.000	2.5	40.1828	9.01	-5.90	20873.400	2.0	269735.890	2.0
39.4024	8.01	-4.31	0.000	1.5	253791.870	1.5	40.1832	9.01	-5.16	20873.400	2.0	269733.700	3.0
39.4027	8.01	-5.02	0.000	1.5	253789.510	0.5	40.1929	8.01	-1.39	26810.700	2.5	275611.000	1.5
39.4054	18.02	-6.79	14010.000	2.0	267782.100	3.0	40.1961	8.01	-1.64	26830.500	1.5	275611.000	0.5
39.4206	9.01	-0.93	341.000	1.0	254015.400	2.0	40.1961	8.01	-2.33	26830.500	1.5	275611.000	1.5
39.4207	9.01	-1.41	341.000	1.0	254014.830	1.0	40.2037	18.02	-5.76	33267.000	0.0	282000.260	1.0
39.4326	25.04	-1.34	17878.000	3.5	271475.000	4.5	40.2099	19.02	-0.43	2162.000	0.5	250857.000	0.5
39.4407	11.05	-0.91	1005068.000	1.0	1258613.000	1.0	40.2139	26.04	-2.77	24973.000	1.0	273643.000	1.0
39.4407	11.05	-0.43	1005068.000	1.0	1258613.000	2.0	40.2159	17.02	-4.97	0.000	1.5	248657.700	2.5
39.4439	9.01	-1.29	489.900	0.0	254014.830	1.0	40.2172	26.04					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
40.3894	25.04	-3.16	17878.000	3.5	265468.000	2.5	41.0064	15.04	-6.60	204197.100	1.5	448061.700	2.5
40.4113	14.03	-2.21	71287.540	.5	318742.790	.5	41.0082	15.04	-4.44	204208.300	2.5	448061.700	3.5
40.4251	26.04	-4.46	26765.000	2.0	274136.000	2.0	41.0082	15.04	-1.74	204208.300	2.5	448061.700	2.5
40.4271	8.02	-4.90	20274.000	2.0	267632.590	2.0	41.0088	19.02	-0.04	2162.000	.5	246012.000	1.5
40.4307	25.04	-4.11	349.000	2.5	247686.000	3.5	41.0124	17.02	-1.98	0.000	1.5	243828.400	2.5
40.4313	25.04	-.64	18382.000	4.5	265715.000	4.5	41.0219	25.04	-2.69	17036.000	2.5	260808.000	1.5
40.4319	23.03	-1.55	10959.300	2.0	258288.800	1.0	41.0309	25.04	.01	1406.000	4.5	245125.000	4.5
40.4333	12.04	-3.09	35890.000	2.0	283211.000	2.0	41.0314	8.02	-.46	210458.500	1.0	454174.000	1.0
40.4352	25.04	-.27	25315.000	5.5	272624.000	5.5	41.0314	8.02	-.97	210458.500	1.0	454174.000	2.0
40.4384	26.04	-3.26	26846.000	3.0	274136.000	2.0	41.0366	23.03	-1.28	13458.300	2.0	257143.200	2.0
40.4408	19.03	-2.22	16384.000	2.0	263659.000	1.0	41.0371	11.03	-.04	0.000	2.0	243682.000	2.0
40.4454	25.04	-1.08	827.000	3.5	248074.000	2.5	41.0396	25.04	-1.13	0.000	1.5	243667.000	2.5
40.4568	26.04	-.72	26466.000	2.0	273643.000	1.0	41.0410	23.03	-1.89	13122.800	0.0	256781.800	1.0
40.4571	8.02	-1.23	210458.500	1.0	457634.000	0.0	41.0458	25.04	-.82	1406.000	4.5	245036.000	5.5
40.4571	8.02	-1.23	210458.500	1.0	457634.000	1.0	41.0539	25.04	-1.37	17878.000	3.5	261460.000	2.5
40.4571	8.02	-2.66	210458.500	1.0	457634.000	2.0	41.0539	11.03	-.74	1105.500	1.0	244688.000	1.0
40.4575	25.04	-2.51	18382.000	4.5	265555.000	3.5	41.0605	25.04	-.13	827.000	3.5	244370.000	3.5
40.4692	8.02	-3.60	20274.000	2.0	267375.650	1.0	41.0606	23.03	-1.99	13239.200	1.0	256781.800	1.0
40.4726	18.03	-.30	21090.700	1.5	268171.380	1.5	41.0662	23.03	-1.35	10959.300	2.0	254468.800	2.0
40.4759	18.03	-1.07	21090.700	1.5	268151.380	2.5	41.0676	23.03	-1.85	13239.200	1.0	256739.900	0.0
40.4868	14.03	-1.91	71748.640	1.5	318742.790	.5	41.0718	11.05	-1.23	970835.000	1.0	1214311.000	2.0
40.4937	18.03	-1.53	21219.500	2.5	268171.380	1.5	41.0976	23.03	-1.82	13458.300	2.0	256781.800	1.0
40.4970	18.03	-.10	21219.500	2.5	268151.380	2.5	41.0985	25.04	-.29	349.000	2.5	243667.000	2.5
40.5054	23.03	-1.92	18391.200	4.0	265271.600	3.0	41.1022	9.04	-.72	565367.000	.5	808663.000	1.5
40.5055	25.04	-3.80	0.000	1.5	246880.000	2.5	41.1172	17.02	-1.16	0.000	1.5	243207.200	.5
40.5058	26.04	-4.28	26765.000	2.0	273643.000	1.0	41.1177	9.01	-6.78	20873.400	2.0	264077.660	1.0
40.5090	25.04	-1.52	827.000	3.5	247686.000	3.5	41.1181	9.01	-5.61	20873.400	2.0	264075.350	2.0
40.5299	23.03	-2.24	10959.300	2.0	257690.800	3.0	41.1186	9.01	-4.86	20873.400	2.0	264072.620	3.0
40.5629	25.04	-1.40	349.000	2.5	246880.000	2.5	41.1298	9.04	-.46	565544.000	1.5	808677.000	2.5
40.5630	25.04	-.67	0.000	1.5	246530.000	.5	41.1321	9.04	-1.42	565544.000	1.5	808663.000	1.5
40.5636	9.01	-1.09	20873.400	2.0	267399.940	1.0	41.1328	25.04	-.43	0.000	1.5	243115.000	1.5
40.5643	25.04	-.36	24953.000	4.5	271475.000	4.5	41.1333	11.03	-.61	1576.000	0.0	244688.000	1.0
40.5661	23.03	-2.00	18391.200	4.0	264902.200	3.0	41.1386	17.02	-.92	0.000	1.5	243080.700	1.5
40.5767	19.03	-.70	16384.000	2.0	262831.000	2.0	41.1531	26.04	-3.41	24937.700	4.0	267932.000	4.0
40.5848	10.01	-1.59	0.000	1.5	246397.490	1.5	41.1584	25.04	-1.28	1406.000	4.5	244370.000	3.5
40.5854	10.01	-.58	0.000	1.5	246394.130	2.5	41.1585	25.04	-.80	827.000	3.5	243790.000	4.5
40.6042	25.04	-.27	1406.000	4.5	247686.000	3.5	41.1794	25.04	-1.14	827.000	3.5	243667.000	2.5
40.6173	23.03	-1.76	18391.200	4.0	264591.900	5.0	41.1823	17.02	-.87	0.000	1.5	242822.800	2.5
40.6200	23.03	-4.40	10959.300	2.0	257143.200	2.0	41.1919	25.04	-1.21	349.000	2.5	243115.000	1.5
40.6240	25.04	-1.46	25315.000	5.5	271475.000	4.5	41.2026	26.04	-2.68	25229.000	.5	267932.000	4.0
40.6248	11.05	-4.26	74434.000	0.0	320589.000	1.0	41.2155	14.03	-2.00	71287.540	.5	313914.920	1.5
40.6268	25.04	-1.96	0.000	1.5	246143.000	1.5	41.2241	11.03	-.52	1105.500	1.0	243682.000	2.0
40.6277	17.02	-1.18	0.000	1.5	246137.200	2.5	41.2259	25.04	-1.79	22902.000	1.5	265468.000	2.5
40.6417	25.04	-.39	827.000	3.5	246880.000	2.5	41.2290	19.02	-.58	0.000	1.5	242548.000	.5
40.6444	18.02	-5.50	0.000	2.0	246036.640	3.0	41.2534	25.04	-.91	349.000	2.5	242753.000	3.5
40.6448	18.02	-7.69	0.000	2.0	246033.790	2.0	41.2547	8.02	-.12	210458.500	1.0	452855.000	2.0
40.6455	18.02	-6.94	0.000	2.0	246029.760	1.0	41.2568	25.04	-1.84	1406.000	4.5	243790.000	4.5
40.6484	19.02	-.52	0.000	1.5	246012.000	1.5	41.2693	26.04	-2.84	24937.700	4.0	267248.000	3.0
40.6486	23.03	-1.70	18391.200	4.0	264401.900	4.0	41.2730	23.03	-3.59	13458.300	2.0	255747.600	3.0
40.6573	25.04	-2.61	349.000	2.5	246307.000	3.5	41.2841	23.03	-3.02	13239.200	1.0	255463.300	2.0
40.6798	23.03	-2.50	10959.300	2.0	256781.800	1.0	41.2939	14.03	-1.73	71748.640	1.5	313914.920	2.5
40.6845	25.04	-.63	349.000	2.5	246143.000	1.5	41.2939	14.03	-2.68	71748.640	1.5	313914.920	1.5
40.6883	23.03	-1.77	18391.200	4.0	264161.800	5.0	41.3215	23.03	-3.65	13458.300	2.0	255463.300	2.0
40.6964	23.03	-2.17	18391.200	4.0	264113.100	4.0	41.3245	23.03	-1.73	13458.300	2.0	255445.500	3.0
40.7042	9.01	-.04	20873.400	2.0	266548.480	3.0	41.3350	25.04	-2.85	827.000	3.5	242753.000	3.5
40.7124	9.01	-3.07	20873.400	2.0	266498.740	1.0	41.3381	23.03	-2.04	13239.200	1.0	255146.800	2.0
40.7138	10.01	-.82	780.340	.5	246397.490	1.5	41.3384	25.04	-1.10	0.000	1.5	241906.000	2.5
40.7198	9.01	-1.72	20873.400	2.0	266453.880	2.0	41.3548	25.04	-3.03	22902.000	1.5	264712.000	1.5
40.7282	25.04	-1.16	17036.000	2.5	262566.000	3.5	41.3681	7.02	-1.86	101031.500	1.5	342763.700	.5
40.7314	23.03	-2.93	18391.200	4.0	263902.300	3.0	41.3734	23.03	-2.32	13122.800	0.0	254824.100	1.0
40.7353	9.01	-3.28	20873.400	2.0	266360.600	1.0	41.3751	17.04	-4.87	113234.000	1.5	354925.000	2.5
40.7355	25.04	-2.60	0.000	1.5	245486.000	2.5	41.3756	23.03	-2.51	13458.300	2.0	255146.800	2.0
40.7365	25.04	-1.76	827.000	3.5	246307.000	3.5	41.3762	17.02	-1.38	0.000	1.5	241685.100	2.5
40.7446	23.03	-1.08	18391.200	4.0	263822.400	4.0	41.3789	7.02	-1.60	101023.800	2.5	342693.000	1.5
40.7503	9.01	-.25	20873.400	2.0	266270.110	2.0	41.3793	19.02	-.90	0.000	1.5	241667.000	1.5
40.7511	17.02	-1.39	0.000	1.5	245392.400	1.5	41.3802	7.02	-2.55	101031.500	1.5	342693.000	1.5
40.7802	23.03	-9.04	18391.200	4.0	263608.300	3.0	41.3818	26.04	-2.94	24973.000	1.0	266625.000	2.0
40.7887	23.03	-3.04	13122.800	0.0	258288.800	1.0	41.3849	25.04	-2.69	23078.000	.5	264712.000	1.5
40.7935	25.04	-2.83	349.000	2.5	245486.000	2.5	41.3875	17.04	-3.67	113306.000	2.5	354925.000	2.5
40.7983	26.04	-5.25	29820.000	3.0	274928.000	3.0	41.3933	23.03	-2.47	13239.200	1.0	254824.100	1.0
40.8062	19.03	-1.13	16384.000	2.0	261445.000	1.0	41.3955	17.02	-1.85	0.000	1.5	241572.400	1.5
40.8081	23.03	-3.46	13239.200	1.0	258288.800	1.0	41.3977	17.02	-2.75	0.000	1.5	241559.400	.5
40.8244	17.02	-1.76	0.000	1.5	244951.500	.5	41.3981	25.04	-3.44	349.000	2.5	241906.000	2.5
40.8274	14.02	-2.48	0.000	0.0	244933.360	1.0	41.4113	25.04	-2.44	22902.000	1.5	264382.000	.5
40.8294	18.02	-5.84	1112.400	1.0	246033.790	2.0	41.4309	23.03	-3.64	13458.300	2.0	254824.100	1.0
40.8301	18.02	-7.43	1112.400	1.0	246029.760	1.0	41.4341	25.04	-2.66	1406.000	4.5	242753.000	3.5
40.8328	25.04	-.61	1406.000	4.5	246307.000	3.5	41.4351	11.05	-.85	0.000	0.0	241341.000	1.0
40.8363	25.04	-1.28	16580.000	1.5	261460.000	2.5	41.4415	25.04	-3.51	23078.000	.5	264382.000	.5
40.8378	14.02	-2.78	0.000	0.0	244871.470	1.0	41.4480	19.04	-1.39	39758.000	.5	281024.000	1.5
40.8446	23.03	-2.60	13458.300	2.0	258288.800	1.0	41.4543	23.03	-				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
41.5809	15.03	-1.18	68607.400	2.0	309102.400	1.0	42.2600	17.02	-1.86	18053.000	1.5	254683.400	2.5
41.5815	19.04	-2.74	24249.500	2.5	264741.000	2.5	42.2717	17.02	-2.18	18118.600	2.5	254683.400	2.5
41.5830	26.04	-1.61	26765.000	2.0	267248.000	3.0	42.2726	17.02	-1.91	18053.000	1.5	254614.700	1.5
41.5970	26.04	-0.91	26846.000	3.0	267248.000	3.0	42.2844	17.02	-2.84	18118.600	2.5	254614.700	1.5
41.5973	25.04	0.08	25315.000	5.5	265715.000	4.5	42.2972	26.04	-2.41	11466.000	4.0	237568.000	3.0
41.5994	25.04	-0.44	17036.000	2.5	257424.000	1.5	42.3266	18.03	-1.64	21090.700	1.5	257348.890	1.5
41.5998	19.02	0.02	2162.000	5	242548.000	5	42.3289	26.04	-2.45	24937.000	4.0	261182.000	3.0
41.6097	8.01	-5.59	0.000	1.5	240328.750	5	42.3374	25.04	-2.22	24610.000	2.5	260808.000	1.5
41.6190	26.04	-1.38	26973.000	4.0	267248.000	3.0	42.3447	25.04	-2.62	24651.000	1.5	260808.000	1.5
41.6301	17.04	-0.88	113234.000	1.5	353445.000	5	42.3497	18.03	-0.16	21219.500	2.5	257348.890	1.5
41.6354	26.04	-3.14	24937.000	4.0	265117.000	5.0	42.3504	22.03	-0.10	0.000	1.5	236125.300	2.5
41.6391	26.04	-3.39	24666.000	2.0	266625.000	2.0	42.3519	26.04	-4.44	24937.000	4.0	261054.000	5.0
41.6490	25.04	-0.53	24610.000	2.5	264712.000	1.5	42.3837	26.04	-1.34	24054.000	0.0	259994.000	1.0
41.6561	25.04	-2.25	24651.000	1.5	264712.000	1.5	42.4043	26.04	-3.38	25229.000	5.0	261054.000	5.0
41.6773	24.04	-2.78	0.000	2.0	239939.000	1.0	42.4061	15.03	-2.07	105189.900	1.0	341004.800	2.0
41.6818	10.04	-4.66	63899.000	0.0	303812.000	1.0	42.4181	22.03	0.06	384.300	2.5	236132.500	3.5
41.6861	26.04	-2.15	25229.000	5.0	265117.000	5.0	42.4194	22.03	-1.24	384.300	2.5	236125.300	2.5
41.6910	26.04	-0.89	26765.000	2.0	266625.000	2.0	42.4244	19.04	-4.78	24012.700	1.5	259726.000	5
41.7051	26.04	-1.37	26846.000	3.0	266625.000	2.0	42.4247	18.02	-5.34	33267.000	0.0	268978.800	1.0
41.7134	25.04	-2.74	24651.000	1.5	264382.000	5	42.4464	26.04	-3.76	24937.000	4.0	260528.000	4.0
41.7136	17.02	-4.86	0.000	1.5	239729.900	2.5	42.4574	8.01	-1.49	40466.900	1.5	275997.000	5
41.7275	19.03	-0.87	16384.000	2.0	256034.000	2.0	42.4577	8.01	-1.80	40468.400	5	275997.000	5
41.7353	9.01	-3.60	0.000	2.0	239605.290	1.0	42.4580	26.04	-1.48	25527.000	6.0	261054.000	5.0
41.7380	26.04	-0.13	25527.000	6.0	265117.000	5.0	42.4580	19.03	-0.88	0.000	2.0	235527.000	1.0
41.7523	26.04	-2.09	24937.000	4.0	264445.000	4.0	42.4657	8.01	-1.38	40466.900	1.5	275991.000	1.5
41.7526	17.02	-5.26	0.000	1.5	239506.300	1.5	42.4657	8.01	-0.43	40466.900	1.5	275991.000	1.5
41.7528	19.02	-1.08	2162.000	5	241667.000	5	42.4660	8.01	-0.67	40468.400	5	275991.000	1.5
41.7566	11.05	-0.15	1858.000	2.0	241341.000	1.0	42.4726	26.04	-0.89	24973.000	1.0	260419.000	2.0
41.7566	11.05	-0.93	1858.000	2.0	241341.000	2.0	42.4991	26.04	-1.95	25229.000	5.0	260528.000	4.0
41.7873	9.01	-0.25	44918.100	0.0	284225.190	1.0	42.5056	19.04	-0.51	24012.700	1.5	259276.000	1.5
41.7886	23.03	-0.79	18391.200	4.0	257690.800	3.0	42.5184	19.04	-1.19	24012.700	1.5	259205.000	1.5
41.7948	9.01	-5.50	341.000	1.0	239605.290	1.0	42.5271	8.01	-1.85	40466.900	1.5	275611.000	5
41.7973	7.02	-1.07	145876.100	5	385126.000	1.5	42.5271	8.01	-1.14	40466.900	1.5	275611.000	1.5
41.8032	26.04	-0.20	25229.000	5.0	264445.000	4.0	42.5274	8.01	-1.54	40468.400	5	275611.000	5
41.8166	7.02	-0.81	145986.500	1.5	385126.000	2.5	42.5274	8.01	-1.84	40468.400	5	275611.000	1.5
41.8166	7.02	-1.77	145986.500	1.5	385126.000	1.5	42.5484	19.04	-1.26	24249.500	2.5	259276.000	1.5
41.8208	9.01	-4.48	489.900	0.0	239605.290	1.0	42.5492	26.04	-2.83	24937.000	4.0	259959.000	3.0
41.8331	8.01	-2.03	26810.700	2.5	265856.000	2.5	42.5494	26.04	-1.49	24973.000	1.0	259994.000	1.0
41.8365	8.01	-2.03	26830.500	1.5	265856.000	2.5	42.5527	18.03	-0.37	21090.700	1.5	256093.290	5
41.8456	26.04	-0.29	24937.000	4.0	263911.000	3.0	42.5592	26.04	-1.56	30150.000	4.0	265117.000	5.0
41.8598	8.01	-1.43	0.000	1.5	238892.960	2.5	42.5613	19.04	-0.80	24249.500	2.5	259205.000	1.5
41.8625	19.02	-0.30	2162.000	5	241039.000	1.5	42.5773	30.02	-1.65	0.000	0.0	234866.900	1.0
41.8705	7.02	0.38	101023.800	2.5	339855.700	3.5	42.5791	24.04	-2.97	0.000	2.0	234857.000	2.0
41.8758	18.02	-5.41	33257.000	0.0	272068.450	1.0	42.5835	26.04	-2.18	24054.000	0.0	258887.000	1.0
41.8818	8.01	-1.21	26810.700	2.5	265578.000	3.5	42.6047	26.04	-0.52	26466.000	2.0	261182.000	3.0
41.8881	8.01	-1.59	0.000	1.5	238731.540	1.5	42.6098	26.04	-0.52	30429.000	5.0	265117.000	5.0
41.8900	7.02	-0.92	101023.800	2.5	339744.400	2.5	42.6212	26.04	-1.62	29820.000	3.0	264445.000	4.0
41.8913	7.02	0.23	101031.500	1.5	339744.400	2.5	42.6212	24.04	-2.39	0.000	2.0	234625.000	1.0
41.9011	8.01	-2.50	26810.700	2.5	265468.200	1.5	42.6399	25.04	-2.28	22902.000	1.5	257424.000	1.5
41.9045	8.01	-3.59	26830.500	1.5	265468.200	5	42.6522	8.01	-3.00	0.000	1.5	234454.450	2.5
41.9045	8.01	-1.46	26830.500	1.5	265468.200	1.5	42.6525	8.01	-2.10	40466.900	1.5	274920.000	1.5
41.9065	8.01	-1.89	0.000	1.5	238626.320	5	42.6525	8.01	-1.14	40466.900	1.5	274920.000	2.5
41.9068	19.04	-7.02	24249.500	2.5	262874.000	3.5	42.6527	8.01	-1.40	40468.400	5	274920.000	1.5
41.9075	8.01	-1.81	26810.700	2.5	265431.500	2.5	42.6569	14.02	-2.32	0.000	0.0	234428.400	1.0
41.9110	8.01	-1.31	26830.500	1.5	265431.500	2.5	42.6590	26.04	-3.12	26765.000	2.0	261182.000	3.0
41.9185	25.04	-3.23	22902.000	1.5	261460.000	2.5	42.6599	26.04	-5.09	24937.000	4.0	259349.000	4.0
41.9332	19.04	-0.74	24012.700	1.5	262487.000	2.5	42.6608	26.04	-1.78	24973.000	1.0	259380.000	2.0
41.9400	9.01	-1.88	44918.100	0.0	283353.780	1.0	42.6617	8.01	-3.75	0.000	1.5	234402.480	1.5
41.9446	8.01	-2.22	26810.700	2.5	265220.300	1.5	42.6644	14.02	-2.62	0.000	0.0	234387.640	1.0
41.9446	8.01	-4.40	26810.700	2.5	265220.300	2.5	42.6719	25.04	-2.85	23078.000	5	257424.000	1.5
41.9454	18.02	-5.02	33267.000	0.0	271672.080	1.0	42.6723	24.04	-2.14	513.000	3.0	234857.000	2.0
41.9481	8.01	-4.66	26830.500	1.5	265220.300	1.5	42.6738	26.04	-2.05	26846.000	3.0	261182.000	3.0
41.9481	8.01	-1.65	26830.500	1.5	265220.300	2.5	42.6812	26.04	-0.73	30150.000	4.0	264445.000	4.0
41.9525	6.03	-1.12	64484.000	0.0	302848.817	0.0	42.6969	26.04	-0.74	26973.000	4.0	261182.000	3.0
41.9644	9.03	-0.76	0.000	0.0	238297.200	1.0	42.7131	26.04	-4.72	25229.000	5.0	259349.000	4.0
41.9676	18.02	-3.46	14010.000	2.0	252289.020	3.0	42.7184	26.04	-0.86	29820.000	3.0	263911.000	3.0
41.9704	18.02	-5.31	14010.000	2.0	252272.920	1.0	42.7203	26.04	-2.33	26973.000	4.0	261054.000	5.0
41.9714	6.03	-0.82	64591.000	0.0	302848.810	0.0	42.7321	26.04	-2.11	30429.000	5.0	264445.000	4.0
41.9738	18.02	-4.18	14010.000	2.0	252253.690	2.0	42.7436	26.04	-1.39	26466.000	2.0	260419.000	2.0
41.9749	19.04	-0.18	24249.500	2.5	262487.000	2.5	42.7508	26.04	-2.34	24973.000	1.0	258887.000	1.0
41.9806	30.02	-1.78	0.000	0.0	238205.500	1.0	42.7509	25.04	-5.22	17036.000	2.5	250949.000	3.5
41.9914	26.04	-1.00	26973.000	4.0	265117.000	5.0	42.7617	19.03	-1.98	1673.000	1.0	235527.000	1.0
41.9970	26.04	-2.50	29820.000	3.0	267932.000	4.0	42.7620	19.04	-0.84	24012.700	1.5	257865.000	2.5
42.0041	9.03	-0.85	225.200	1.0	238297.200	1.0	42.7676	25.04	-1.87	17878.000	3.5	251700.000	4.5
42.0178	9.01	-2.98	44918.100	0.0	282912.540	1.0	42.7787	26.04	-2.06	30150.000	4.0	263911.000	3.0
42.0246	25.04	-2.36	24610.000	2.5	262566.000	3.5	42.7811	26.04	-4.28	24937.000	4.0	258685.000	3.0
42.0334	25.04	-2.62	22902.000	1.5	260808.000	1.5	42.7846	10.02	-0.43	55750.000	0.0	289479.000	1.0
42.0414	23.03	-5.18	18391.200	4.0	256251.700	4.0	42.7914	26.04	-1.45	24054.000	0.0	257746.000	1.0
42.0553	26.04	-1.13	30150.000	4.0	267932.000	4.0	42.7932	26.04	-2.96	26846.000	3.0	260528.000	4.0
42.0645	25.04	-2.65											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
42.9560	8.01	-1.77	0.000	1.5	232796.270	2.5	43.4520	26.04	-3.90	29820.000	3.0	259959.000	3.0
42.9601	26.04	-3.63	25527.000	6.0	258301.000	6.0	43.4569	20.03	.58	0.000	1.5	230113.000	2.5
42.9603	25.04	-3.55	24651.000	1.5	257424.000	1.5	43.4575	25.04	-1.08	16420.000	.5	246530.000	.5
42.9603	26.04	-1.59	24973.000	1.0	257746.000	1.0	43.4596	26.04	-2.97	30629.000	5.0	260528.000	4.0
42.9650	8.01	-1.02	0.000	1.5	232747.510	2.5	43.4650	8.02	-1.11	120052.600	2.0	350122.900	1.0
42.9653	8.01	-.86	0.000	1.5	232745.980	1.5	43.4661	8.02	-4.68	120058.500	1.0	350122.900	1.0
42.9716	8.01	-.95	0.000	1.5	232711.700	.5	43.4844	8.02	-4.64	120058.500	1.0	350026.100	0.0
42.9895	26.04	-2.92	26765.000	2.0	259380.000	2.0	43.4877	25.04	-1.77	16580.000	1.5	246530.000	.5
42.9918	8.01	-1.18	0.000	1.5	232602.570	.5	43.4983	8.02	-1.07	43186.000	0.0	273080.070	1.0
42.9919	9.01	-9.85	20873.400	2.0	253475.280	2.0	43.5078	25.04	-1.18	17036.000	2.5	246880.000	2.5
42.9919	9.01	-9.47	20873.400	2.0	253475.280	3.0	43.5100	26.04	-5.15	24973.000	1.0	254805.000	2.0
42.9984	25.04	-1.41	18382.000	4.5	250949.000	3.5	43.5131	18.03	-3.06	21090.700	1.5	250906.600	1.5
43.0041	8.01	-.65	0.000	1.5	232536.060	1.5	43.5133	24.04	-1.24	513.000	3.0	230328.000	3.0
43.0045	26.04	-2.03	26846.000	3.0	259380.000	2.0	43.5144	26.04	-3.03	30150.000	4.0	259959.000	3.0
43.0102	26.04	-3.68	26846.000	3.0	259349.000	4.0	43.5145	25.04	-2.78	17878.000	3.5	247686.000	3.5
43.0151	8.01	-2.32	26810.700	2.5	259287.000	1.5	43.5307	25.04	-1.27	16420.000	.5	246143.000	1.5
43.0153	8.01	-1.17	26810.700	2.5	259286.200	2.5	43.5375	18.03	-2.56	21219.500	2.5	250906.600	1.5
43.0155	9.02	.35	34087.400	2.5	266561.850	1.5	43.5610	25.04	-1.16	16580.000	1.5	246143.000	1.5
43.0176	8.01	-.36	0.000	1.5	232462.830	2.5	43.5616	26.04	-3.32	29820.000	3.0	259380.000	2.0
43.0188	8.01	-1.36	26830.500	1.5	259287.000	1.5	43.5624	24.04	-1.40	0.000	2.0	229556.000	2.0
43.0189	8.01	-2.31	26830.500	1.5	259286.200	2.5	43.5675	26.04	-4.54	29820.000	3.0	259349.000	4.0
43.0221	9.02	-.61	34123.200	1.5	266561.850	1.5	43.6047	26.04	-3.72	26846.000	3.0	256179.000	4.0
43.0254	26.04	-3.64	26466.000	2.0	258887.000	1.0	43.6102	25.04	-.97	18382.000	4.5	247686.000	3.5
43.0337	26.04	-2.99	26973.000	4.0	259349.000	4.0	43.6165	25.04	-.86	17036.000	2.5	246307.000	3.5
43.0628	26.04	-1.66	26466.000	2.0	258685.000	3.0	43.6167	16.04	-.39	81995.000	3.0	311265.000	1.0
43.0654	26.04	-5.98	24937.000	4.0	257142.000	5.0	43.6289	26.04	-3.21	26973.000	4.0	256179.000	4.0
43.0746	9.03	-5.05	25234.400	2.0	257390.000	1.0	43.6302	26.04	-3.30	30150.000	4.0	259349.000	4.0
43.0808	26.04	-2.23	26765.000	2.0	258887.000	1.0	43.6334	24.04	-.32	1146.000	4.0	230328.000	3.0
43.0911	9.01	-.31	0.000	2.0	232066.320	3.0	43.6436	18.03	-2.88	21090.700	1.5	250219.450	.5
43.0915	9.01	-1.05	0.000	2.0	232064.160	2.0	43.6439	24.04	-1.76	0.000	2.0	229127.000	3.0
43.0917	9.01	-2.23	0.000	2.0	232063.340	1.0	43.6477	25.04	-2.24	17036.000	2.5	246143.000	1.5
43.0985	18.02	-7.33	14010.000	2.0	246036.640	3.0	43.6516	8.01	-1.31	26810.700	2.5	255897.200	2.5
43.0990	18.02	-7.98	14010.000	2.0	246033.790	2.0	43.6533	17.02	-1.60	29812.800	.5	258890.800	1.5
43.0998	18.02	-8.57	14010.000	2.0	246029.760	1.0	43.6554	8.01	-3.47	26830.500	1.5	255897.200	2.5
43.1183	26.04	-5.42	26765.000	2.0	258685.000	3.0	43.6599	24.04	-.52	513.000	3.0	229556.000	2.0
43.1196	26.04	-4.70	25229.000	5.0	257142.000	5.0	43.6619	8.01	-2.42	26810.700	2.5	255843.100	1.5
43.1334	26.04	-3.29	26846.000	3.0	258685.000	3.0	43.6657	8.01	-1.53	26830.500	1.5	255843.100	1.5
43.1423	8.01	-1.71	26810.700	2.5	258601.700	1.5	43.6677	25.04	-1.28	17878.000	3.5	246880.000	2.5
43.1460	8.01	-2.67	26830.500	1.5	258601.700	1.5	43.6709	17.02	-1.96	29905.600	1.5	258890.800	1.5
43.1477	10.03	-.35	253823.000	1.5	485585.000	.5	43.6719	17.02	-1.35	29905.600	1.5	258885.800	2.5
43.1549	9.01	-.60	341.000	1.0	232064.160	2.0	43.6796	26.04	-5.11	26466.000	2.0	255406.000	3.0
43.1551	9.01	-1.07	341.000	1.0	232063.340	1.0	43.6834	26.04	-2.66	30429.000	5.0	259349.000	4.0
43.1570	26.04	-1.60	26973.000	4.0	258685.000	3.0	43.6861	25.04	-1.47	16580.000	1.5	245486.000	2.5
43.1652	26.04	-1.82	26466.000	2.0	258134.000	2.0	43.6939	26.04	-4.21	29820.000	3.0	258685.000	3.0
43.1751	26.04	-2.65	25527.000	6.0	257142.000	5.0	43.7078	8.01	-5.33	26830.500	1.5	255622.400	.5
43.1820	8.01	-1.93	26830.500	1.5	258408.600	.5	43.7265	7.01	-1.42	0.000	0.0	228694.300	1.0
43.1828	9.01	-.95	489.900	0.0	232063.340	1.0	43.7271	20.03	-3.06	0.000	1.5	228691.000	.5
43.1977	25.04	-1.73	16580.000	1.5	248074.000	2.5	43.7286	7.01	-1.07	48.700	1.0	228731.810	2.0
43.2210	26.04	-2.62	26765.000	2.0	258134.000	2.0	43.7287	9.03	-5.28	225.200	1.0	228908.000	2.0
43.2223	26.04	-3.40	29820.000	3.0	261182.000	3.0	43.7329	7.01	-.74	130.800	2.0	228791.830	3.0
43.2245	8.01	-4.26	0.000	1.5	231350.080	2.5	43.7341	8.01	-.52	26810.700	2.5	255465.200	3.5
43.2346	8.01	-5.03	0.000	1.5	231296.050	1.5	43.7358	7.01	-1.55	48.700	1.0	228694.300	1.0
43.2361	26.04	-1.45	26846.000	3.0	258134.000	2.0	43.7367	26.04	-4.50	26765.000	2.0	255406.000	3.0
43.2376	26.04	-2.83	26466.000	2.0	257746.000	1.0	43.7419	24.04	-.56	513.000	3.0	229127.000	3.0
43.2447	26.04	-7.10	24937.000	4.0	256179.000	4.0	43.7443	7.01	-1.48	130.800	2.0	228731.810	2.0
43.2614	8.01	-6.56	26810.700	2.5	257963.800	2.5	43.7447	16.04	-1.09	82666.000	0.0	311265.000	1.0
43.2651	8.01	-7.71	26830.500	1.5	257963.800	2.5	43.7515	7.01	-2.65	130.800	2.0	228694.300	1.0
43.2829	25.04	-1.87	17036.000	2.5	248074.000	2.5	43.7522	26.04	-3.23	26846.000	3.0	255406.000	3.0
43.2840	26.04	-3.06	30150.000	4.0	261182.000	3.0	43.7570	26.04	-4.85	30150.000	4.0	258685.000	3.0
43.2899	9.01	-4.40	0.000	2.0	231000.790	1.0	43.7643	24.04	-.72	0.000	2.0	228497.000	2.0
43.2901	9.01	-4.22	0.000	2.0	230999.780	2.0	43.7655	8.01	-1.93	26810.700	2.5	255301.300	2.5
43.2903	9.01	-6.54	0.000	2.0	230998.600	3.0	43.7693	8.01	-.64	26830.500	1.5	255301.300	2.5
43.2924	8.01	-4.32	26810.700	2.5	257797.900	1.5	43.7731	8.01	-2.60	26830.500	1.5	255281.400	.5
43.2936	26.04	-1.44	26765.000	2.0	257746.000	1.0	43.7733	25.04	-1.92	17036.000	2.5	245486.000	2.5
43.2962	8.01	-5.22	26830.500	1.5	257797.900	1.5	43.7765	26.04	-3.76	26973.000	4.0	255406.000	3.0
43.2994	26.04	-2.74	25229.000	5.0	256179.000	4.0	43.7773	25.04	-2.43	17878.000	3.5	246307.000	3.5
43.3063	22.03	-2.21	0.000	1.5	230913.400	1.5	43.7773	20.03	.14	0.000	1.5	228429.000	1.5
43.3080	26.04	-2.93	30150.000	4.0	261054.000	5.0	43.7849	14.03	-1.90	71287.540	.5	299676.950	.5
43.3082	15.04	-2.60	204197.100	1.5	435100.400	1.5	43.7902	8.01	-2.36	26810.700	2.5	255172.500	1.5
43.3097	24.04	-1.60	513.000	3.0	231408.000	4.0	43.7940	8.01	-2.99	26830.500	1.5	255172.500	1.5
43.3103	15.04	-1.65	204208.300	2.5	435100.400	1.5	43.7945	26.04	-5.71	26466.000	2.0	254805.000	2.0
43.3123	18.03	-3.82	21090.700	1.5	251972.000	2.5	43.7959	8.01	-5.98	26830.500	1.5	255162.600	.5
43.3157	8.01	-4.87	26830.500	1.5	257693.700	.5	43.7962	8.01	-5.90	26810.700	2.5	255140.900	1.5
43.3246	10.03	-.10	253807.000	2.5	484623.000	1.5	43.7993	26.04	-3.61	29820.000	3.0	258134.000	2.0
43.3276	10.03	-1.06	253823.000	1.5	484623.000	1.5	43.8000	8.01	-.49	26830.500	1.5	255140.900	1.5
43.3307	7.01	-1.85	48.700	1.0	230831.740	2.0	43.8028	9.03	-4.82	612.200	2.0	228908.000	2.0
43.3365	18.03	-2.63	21219.500	2.5	251972.000	2.5	43.8032	8.01	-.40	26810.700	2.5	255104.600	2.5
43.3448	26.04	-3.47	29820.000	3.0	260528.000	4.0	43.8070	8.01	-3.57	26830.500	1.5	255104.600	2.5
43.3462	7.01	-1.26	130.800	2.0	230831.740	2.0	43.8141	16.04	-.61	83028.000	1.0	311265.000	1.0
43.3538	9.01	-4.47	341.000	1.0	231001.270	0.0	43.8434	8.01	-4.74				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
44.1028	25.04	-2.60	18382.000	4.5	245125.000	4.5
44.1036	24.04	-4.70	13200.000	2.0	239939.000	1.0
44.1086	26.04	-2.97	30429.000	5.0	257142.000	5.0
44.1121	25.04	-3.07	16420.000	5	243115.000	1.5
44.1201	25.04	-4.31	18382.000	4.5	245036.000	5.5
44.1246	25.04	-2.91	17036.000	2.5	243667.000	2.5
44.1372	17.02	-4.95	18118.600	2.5	244684.900	3.5
44.1433	25.04	-2.95	16580.000	1.5	243115.000	1.5
44.1517	25.04	-3.39	17878.000	3.5	244370.000	3.5
44.1725	25.04	-4.07	25315.000	5.5	251700.000	4.5
44.1776	26.04	-4.62	29820.000	3.0	256179.000	4.0
44.1815	25.04	-3.14	24610.000	2.5	250949.000	3.5
44.2013	8.01	-6.66	26810.700	2.5	253048.350	2.5
44.2017	8.01	-1.80	26810.700	2.5	253046.230	1.5
44.2052	8.01	-1.77	26830.500	1.5	253048.350	2.5
44.2056	8.01	-8.84	26830.500	1.5	253046.230	1.5
44.2223	24.04	-1.36	0.000	2.0	226130.000	2.0
44.2302	19.03	1.13	0.000	2.0	226090.000	1.0
44.2323	25.04	-4.09	17036.000	2.5	243115.000	1.5
44.2347	16.05	-1.59	401164.000	5	627231.000	1.5
44.2421	26.04	-3.51	30150.000	4.0	256179.000	4.0
44.2486	25.04	-4.18	24953.000	4.5	250949.000	3.5
44.2501	25.04	-3.39	18382.000	4.5	244370.000	3.5
44.2519	19.03	-4.47	1673.000	1.0	227652.000	0.0
44.2650	25.04	-5.37	17878.000	3.5	243790.000	4.5
44.2873	8.01	-2.92	26810.700	2.5	252608.900	3.5
44.2891	25.04	-4.63	17878.000	3.5	243667.000	2.5
44.2918	17.02	-1.25	18053.000	1.5	243828.400	2.5
44.2968	26.04	-3.23	30429.000	5.0	256179.000	4.0
44.3033	25.04	-4.34	17036.000	2.5	242753.000	3.5
44.3047	17.02	-2.52	18118.600	2.5	243828.400	2.5
44.3229	24.04	-4.60	513.000	3.0	226130.000	2.0
44.3243	16.05	-1.33	401621.000	1.5	627231.000	2.5
44.3243	16.05	-2.28	401621.000	1.5	627231.000	1.5
44.3290	26.04	-4.65	29820.000	3.0	255406.000	3.0
44.3310	20.03	-2.74	3115.000	5	228691.000	5
44.3567	19.03	2.21	0.000	2.0	225445.000	2.0
44.3640	25.04	-2.94	18382.000	4.5	243790.000	4.5
44.3677	8.01	-1.42	40466.900	1.5	265856.000	2.5
44.3801	25.04	-4.31	16580.000	1.5	241906.000	2.5
44.3810	15.03	-3.84	67911.600	0.0	293233.500	1.0
44.3825	20.03	0.09	3115.000	5	228429.000	1.5
44.3939	26.04	-3.07	30150.000	4.0	255406.000	3.0
44.3981	17.02	-3.50	29905.600	1.5	255140.400	2.5
44.4101	19.04	-3.79	39758.000	5	264932.000	1.5
44.4105	25.04	-4.88	22902.000	1.5	248074.000	2.5
44.4140	17.02	-6.48	18053.000	1.5	243207.200	5
44.4221	19.03	-4.40	38546.000	0.0	263659.000	1.0
44.4247	15.03	-3.49	68139.000	1.0	293238.900	2.0
44.4258	15.03	-3.96	68139.000	1.0	293233.500	1.0
44.4283	19.02	-1.61	0.000	1.5	225082.000	1.5
44.4344	19.02	-1.32	0.000	1.5	225051.000	2.5
44.4390	17.02	-5.22	18053.000	1.5	243080.700	1.5
44.4442	8.01	-1.97	40466.900	1.5	265468.200	1.5
44.4442	8.01	-1.68	40466.900	1.5	265468.200	1.5
44.4445	8.01	-3.50	40468.400	5	265468.200	1.5
44.4474	26.04	-3.08	29820.000	3.0	254805.000	2.0
44.4514	8.01	-1.67	40466.900	1.5	265431.500	2.5
44.4519	17.02	-5.31	18118.600	2.5	243080.700	1.5
44.4691	25.04	-3.95	17878.000	3.5	242753.000	3.5
44.4701	25.04	-4.97	17036.000	2.5	241906.000	2.5
44.4731	19.04	-2.86	40077.000	1.5	264932.000	1.5
44.4840	17.02	-2.38	29812.800	5	254612.700	1.5
44.4884	17.02	-1.80	29905.600	1.5	254683.400	2.5
44.4900	17.02	-3.26	18053.000	1.5	242822.800	2.5
44.4932	8.01	-1.78	40466.900	1.5	265220.300	1.5
44.4932	8.01	-1.44	40466.900	1.5	265220.300	2.5
44.5014	20.03	-3.82	3115.000	5	227827.000	1.5
44.5024	17.02	-3.50	29905.600	1.5	254612.700	1.5
44.5030	17.02	-4.90	18118.600	2.5	242822.800	2.5
44.5039	11.01	-1.18	0.000	1.5	224699.270	5
44.5046	11.04	-4.71	73221.000	5	297917.000	1.5
44.5109	19.04	-2.12	40077.000	1.5	264741.000	2.5
44.5123	11.04	-1.46	73260.000	1.5	297917.000	1.5
44.5158	15.03	-3.42	68607.400	2.0	293246.600	3.0
44.5174	15.03	-4.17	68607.400	2.0	293238.900	2.0
44.5190	11.04	-4.45	73260.000	1.5	297883.000	2.5
44.5555	24.04	-2.37	15500.000	0.0	239939.000	1.0
44.5599	19.03	-4.83	1673.000	1.0	226090.000	1.0
44.5606	8.01	-1.26	26810.700	2.5	251224.100	2.5
44.5613	8.01	0.01	26810.700	2.5	251220.900	3.5
44.5646	8.01	-1.14	26830.500	1.5	251224.100	2.5
44.5690	25.04	-2.20	18382.000	4.5	242753.000	3.5
44.5696	24.04	-1.41	13200.000	2.0	237568.000	3.0
44.5921	24.04	-2.98	15684.000	1.0	239939.000	1.0
44.6051	8.02	-4.28	43186.000	0.0	267375.650	1.0
44.6255	10.01	-4.47	0.000	1.5	224087.020	1.5
44.6373	25.04	-2.03	17878.000	3.5	241906.000	2.5
44.6472	25.04	-3.22	22902.000	1.5	246880.000	2.5
44.6573	17.02	-1.33	18118.600	2.5	242046.200	3.5
44.6590	10.01	-4.88	780.340	5	224699.270	5
44.6654	24.04	-1.75	16052.000	2.0	239939.000	1.0
44.6883	19.03	-1.52	1673.000	1.0	225445.000	2.0
44.6897	19.03	-1.75	2325.000	0.0	226090.000	1.0
44.7163	17.02	-1.62	18053.000	1.5	241685.100	2.5
44.7171	25.04	-4.27	22902.000	1.5	246530.000	5
44.7294	17.02	-2.66	18118.600	2.5	241685.100	2.5
44.7388	17.02	-4.20	18053.000	1.5	241572.400	1.5
44.7414	17.02	-5.20	18053.000	1.5	241559.400	5
44.7499	25.04	-4.77	24610.000	2.5	248074.000	2.5
44.7520	17.02	-5.64	18118.600	2.5	241572.400	1.5
44.7523	25.04	-5.00	23078.000	5	246530.000	5
44.7525	18.04	-2.06	765.000	1.0	224216.000	2.0
44.7581	25.04	-1.03	24651.000	1.5	248074.000	2.5
44.7593	23.03	-2.88	47462.100	0.0	265879.200	1.0
44.7815	10.01	-1.19	780.340	5	224087.020	1.5
44.7946	25.04	-1.54	22902.000	1.5	246143.000	1.5
44.8226	7.01	-3.09	0.000	0.0	223101.820	1.0
44.8278	25.04	-1.17	24610.000	2.5	247686.000	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
44.8292	7.01	-1.67	0.000	0.0	223069.020	1.0
44.8300	25.04	-1.38	23078.000	5	246143.000	1.5
44.8324	7.01	-3.21	48.700	1.0	223101.820	1.0
44.8390	7.01	-1.20	48.700	1.0	223069.020	1.0
44.8489	7.01	-3.00	130.800	2.0	223101.820	1.0
44.8555	7.01	-4.96	130.800	2.0	223069.020	1.0
44.8591	19.02	-4.51	2162.000	5	225082.000	1.5
44.8634	19.03	4.42	38546.000	0.0	261445.000	1.0
44.8773	7.01	-2.54	48.700	1.0	222878.390	2.0
44.8939	7.01	-2.06	130.800	2.0	222878.390	2.0
44.8946	7.01	-2.78	0.000	0.0	222744.160	1.0
44.8968	25.04	-5.13	24953.000	4.5	247686.000	3.5
44.9012	19.04	-3.29	0.000	1.5	222711.000	1.5
44.9044	7.01	-2.91	48.700	1.0	222744.160	1.0
44.9209	7.01	-2.68	130.800	2.0	222744.160	1.0
44.9269	25.04	-1.29	22902.000	1.5	245486.000	2.5
44.9322	23.03	-2.67	42462.100	0.0	265019.700	1.0
44.9453	18.03	-4.98	34856.200	5	257348.890	1.5
44.9475	9.01	-3.95	44918.100	0.0	267399.940	1.0
44.9489	18.04	-1.62	2030.000	2.0	224505.000	3.0
44.9600	19.03	-4.23	0.000	2.0	222420.000	3.0
44.9620	19.04	4.23	40077.000	1.5	262487.000	2.5
44.9707	19.04	-3.07	0.000	1.5	222367.000	2.5
44.9811	18.03	-4.37	35033.100	1.5	257348.890	1.5
44.9903	25.04	-2.11	24610.000	2.5	246880.000	2.5
44.9986	25.04	-1.29	24651.000	1.5	246880.000	2.5
45.0073	18.04	-2.47	2030.000	2.0	224216.000	2.0
45.0539	17.02	-3.42	18118.600	2.5	240075.200	3.5
45.0564	20.03	-1.91	0.000	1.5	221944.000	1.5
45.0696	25.04	-4.01	24651.000	1.5	246530.000	5
45.1066	25.04	-4.93	24610.000	2.5	246307.000	3.5
45.1107	17.02	-3.92	18053.000	1.5	239729.900	2.5
45.1147	24.04	-3.18	13200.000	2.0	234857.000	2.0
45.1241	17.02	-3.96	18118.600	2.5	239729.900	2.5
45.1303	9.01	-2.71	44918.100	0.0	266498.740	1.0
45.1400	25.04	-2.39	24610.000	2.5	246143.000	1.5
45.1435	24.04	-2.29	16052.000	2.0	237568.000	3.0
45.1484	25.04	-1.38	24651.000	1.5	246143.000	1.5
45.1562	17.02	-3.91	18053.000	1.5	239506.300	1.5
45.1584	9.01	-3.32	44918.100	0.0	266360.600	1.0
45.1620	24.04	-1.74	13200.000	2.0	234625.000	1.0
45.1696	17.02	-6.65	18118.600	2.5	239506.300	1.5
45.1765	25.04	-4.37	24953.000	4.5	246307.000	3.5
45.1870	7.02	-1.13	0.000	5		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
45.6998	8.01	-1.58	40466.900	1.5	259286.200	2.5	46.6360	8.01	-3.51	40468.400	.5	254895.200	1.5
45.7000	8.01	-1.83	40468.400	.5	259287.000	1.5	46.6534	18.02	-2.50	0.000	2.0	214346.700	1.0
45.7016	26.02	-2.75	932.400	1.0	219743.040	1.0	46.6558	7.01	-2.21	48.700	1.0	214384.130	2.0
45.7028	24.04	-3.38	16052.000	2.0	234857.000	2.0	46.6593	23.03	-3.10	42462.100	0.0	256781.800	1.0
45.7138	17.02	-3.57	29905.600	1.5	248657.700	2.5	46.6657	12.03	-4.48	597071.900	1.5	811362.000	1.5
45.7181	9.01	.38	20873.400	2.0	239605.290	1.0	46.6688	24.04	-1.23	16052.000	2.0	230328.000	3.0
45.7199	26.02	-1.88	932.400	1.0	219655.550	2.0	46.6728	7.01	-2.29	0.000	0.0	214257.690	1.0
45.7214	26.02	-2.23	1027.300	0.0	219743.040	1.0	46.6737	7.01	-1.73	130.800	2.0	214384.130	2.0
45.7215	17.02	-3.82	29812.800	.5	248528.200	1.5	46.6783	19.02	-3.88	0.000	1.5	214232.300	.5
45.7369	18.04	-3.02	0.000	0.0	218642.000	1.0	46.6834	7.01	-2.42	48.700	1.0	214257.690	1.0
45.7409	17.02	-1.41	29905.600	1.5	248528.200	1.5	46.6933	7.01	-2.29	48.700	1.0	214211.960	0.0
45.7503	19.03	-3.84	38546.000	0.0	257124.000	1.0	46.6988	9.02	-3.54	34123.200	1.5	248261.400	.5
45.7513	24.04	-3.93	16052.000	2.0	234625.000	1.0	46.7013	7.01	-2.20	130.800	2.0	214257.690	1.0
45.7523	26.02	-2.71	436.200	3.0	219004.530	4.0	46.7184	17.03	-3.71	1341.000	2.0	215389.300	1.0
45.7655	25.04	-3.29	24610.000	2.5	243115.000	1.5	46.7186	26.02	-7.62	0.000	4.0	214047.380	4.0
45.7693	26.02	-5.11	436.200	3.0	218923.080	3.0	46.7255	12.03	-3.20	596527.300	2.5	810543.000	1.5
45.7718	25.04	-2.82	25315.000	5.5	243790.000	4.5	46.7267	26.02	-9.34	0.000	4.0	214010.320	5.0
45.7741	25.04	-2.35	24651.000	1.5	243115.000	1.5	46.7327	15.02	-2.07	0.000	.5	213982.800	1.5
45.7815	14.03	-1.40	0.000	.5	218428.670	1.5	46.7397	18.02	.51	0.000	2.0	213950.870	2.0
45.7825	26.02	-5.08	436.200	3.0	218860.430	2.0	46.7458	17.02	-4.88	29905.600	1.5	243828.400	2.5
45.8085	11.05	-1.10	996011.000	2.0	1214311.000	2.0	46.7569	24.04	-1.55	15684.000	1.0	229556.000	2.0
45.8155	14.03	-1.68	0.000	.5	218266.850	.5	46.7621	11.03	-4.68	30839.400	2.0	244688.000	1.0
45.8328	26.02	-3.54	738.900	2.0	218923.080	3.0	46.7768	12.03	-3.17	597589.900	.5	811362.000	1.5
45.8339	11.05	-3.71	872577.000	1.0	1090756.000	2.0	46.7933	8.01	-1.26	26810.700	2.5	240516.280	1.5
45.8415	25.04	-2.47	24610.000	2.5	242753.000	3.5	46.7977	8.01	-2.22	26830.500	1.5	240516.280	1.5
45.8432	8.01	-1.92	40466.900	1.5	258601.700	1.5	46.8090	18.01	-1.73	1431.410	1.5	215065.710	.5
45.8435	8.01	-2.61	40468.400	.5	258601.700	1.5	46.8140	26.02	-7.74	436.200	3.0	214047.380	4.0
45.8460	26.02	-4.33	738.900	2.0	218860.430	2.0	46.8375	24.04	-2.67	16052.000	2.0	229556.000	2.0
45.8478	17.03	-3.02	1341.000	2.0	219454.000	1.0	46.8388	8.01	-1.50	26830.500	1.5	240328.750	.5
45.8838	8.01	-2.59	40466.900	1.5	258408.600	.5	46.8428	18.01	-4.84	1431.410	1.5	214911.300	2.5
45.8841	8.01	-2.29	40468.400	.5	258408.600	.5	46.8438	7.01	-5.56	15316.200	2.0	228791.830	3.0
45.8867	26.02	-4.37	932.400	1.0	218860.430	2.0	46.8447	12.03	-2.74	597071.900	1.5	810543.000	.5
45.8975	18.04	-3.06	765.000	1.0	218642.000	1.0	46.8447	12.03	-2.57	597071.900	1.5	810543.000	1.5
45.9137	25.04	-3.36	24953.000	4.5	242753.000	3.5	46.8480	18.02	-3.08	1112.400	1.0	214568.490	0.0
45.9162	19.04	-2.16	40077.000	1.5	257865.000	2.5	46.8553	15.02	-1.83	559.600	1.5	213982.800	2.5
45.9462	6.02	-1.38	52367.000	0.0	270012.855	0.0	46.8553	15.02	-2.78	559.600	1.5	213982.800	1.5
45.9521	6.02	-3.03	52390.000	0.0	270007.911	0.0	46.8569	7.01	-6.30	15316.200	2.0	228731.810	2.0
45.9521	6.02	-3.50	52390.000	0.0	270007.911	0.0	46.8616	17.02	-7.28	29812.800	.5	243207.200	.5
45.9546	11.04	-3.88	590754.000	.5	568360.000	1.5	46.8768	8.01	-1.75	40466.900	1.5	253791.870	1.5
45.9607	11.05	-3.35	356734.000	3.0	1214311.000	2.0	46.8772	8.01	-1.46	40468.400	.5	253791.870	1.5
45.9633	6.02	-3.51	52447.000	0.0	270011.883	0.0	46.8774	8.01	-1.46	40466.900	1.5	253789.510	.5
45.9633	6.02	-2.24	52447.000	0.0	270011.883	0.0	46.8777	8.01	-1.15	40468.400	.5	253789.510	.5
45.9640	6.02	-1.68	52447.000	0.0	270008.570	0.0	46.8811	8.02	-4.88	187049.400	2.0	400354.800	2.0
45.9726	18.04	.33	765.000	1.0	218286.000	2.0	46.8820	17.02	-4.74	29905.600	1.5	243207.200	.5
45.9836	11.05	-3.79	873287.000	2.0	1090756.000	2.0	46.8894	17.02	-4.70	29812.800	.5	243080.700	1.5
45.9897	11.04	-3.70	0.000	1.5	217440.000	.5	46.8964	18.01	-1.01	1431.410	1.5	214667.480	2.5
46.0128	8.01	-4.52	40466.900	1.5	257797.900	1.5	46.8968	18.02	-2.23	1112.400	1.0	214346.700	1.0
46.0202	25.04	-3.20	24610.000	2.5	241906.000	2.5	46.9098	17.02	-4.83	29905.600	1.5	243080.700	1.5
46.0289	25.04	-2.32	24651.000	1.5	241906.000	2.5	46.9154	12.03	-3.08	596527.300	2.5	809677.000	2.5
46.0558	24.04	-2.78	13200.000	2.0	230328.000	3.0	46.9318	24.04	-1.04	16052.000	2.0	229127.000	3.0
46.0728	10.01	-1.19	0.000	1.5	217047.610	.5	46.9345	9.03	-4.59	25234.000	2.0	238297.200	1.0
46.0959	18.03	-4.23	35033.100	1.5	251972.000	2.5	46.9499	19.01	-1.43	0.000	0.0	212992.900	1.0
46.1050	11.04	-3.40	0.000	1.5	216896.000	1.5	46.9587	12.03	-3.05	597589.900	.5	810543.000	.5
46.1655	18.04	-1.09	2030.000	2.0	218642.000	1.0	46.9587	12.03	-3.08	597589.900	.5	810543.000	1.5
46.2201	24.04	-1.37	13200.000	2.0	229556.000	2.0	46.9633	18.01	-1.76	0.000	.5	212932.320	1.5
46.2391	10.01	-3.49	780.340	.5	217047.610	.5	46.9638	24.04	-4.42	13200.000	2.0	226130.000	2.0
46.2415	18.04	-0.00	2030.000	2.0	218286.000	2.0	46.9666	17.02	-4.58	29905.600	1.5	242822.800	2.5
46.2467	17.02	-5.24	29905.600	1.5	246137.200	2.5	46.9831	11.03	-3.32	30839.400	2.0	243682.000	2.0
46.2855	18.03	-3.78	34856.200	.5	250906.600	1.5	46.9840	18.02	-3.35	1112.400	1.0	213950.870	2.0
46.3012	17.03	-3.73	491.000	1.0	216468.100	2.0	46.9896	24.04	-1.09	15684.000	1.0	228497.000	2.0
46.3119	24.04	-2.22	13200.000	2.0	229127.000	3.0	46.9977	18.02	.14	1570.200	0.0	214346.700	1.0
46.3234	18.03	-2.95	35033.100	1.5	250906.600	1.5	47.0008	8.01	-7.87	0.000	1.5	212762.400	.5
46.3263	11.04	-2.22	0.000	1.5	215860.000	2.5	47.0090	19.02	-1.18	0.000	1.5	212725.400	1.5
46.3335	23.03	-1.78	42462.100	0.0	258288.800	1.0	47.0354	10.03	-1.08	41217.000	2.5	253823.000	1.5
46.3866	17.02	-2.67	29812.800	.5	245392.400	1.5	47.0356	12.03	-2.68	597071.900	1.5	809677.000	2.5
46.3934	18.04	.64	2030.000	2.0	217578.000	3.0	47.0382	8.01	-7.25	0.000	1.5	212593.200	1.5
46.4004	7.01	-6.08	15316.200	2.0	230831.740	2.0	47.0389	10.03	.09	41217.000	2.5	253807.000	2.5
46.4020	24.04	.09	22060.000	4.0	237568.000	3.0	47.0408	8.01	-1.95	40466.900	1.5	253048.350	2.5
46.4066	17.02	-1.99	29905.600	1.5	245392.400	1.5	47.0413	8.01	-1.92	40466.900	1.5	253046.230	1.5
46.4110	10.04	-4.51	63899.000	0.0	279365.000	1.0	47.0416	8.01	-1.23	40468.400	.5	253046.230	1.5
46.4187	8.01	-3.81	40466.900	1.5	255897.200	2.5	47.0453	10.03	-1.10	41262.000	1.5	253823.000	1.5
46.4276	17.03	-3.82	0.000	0.0	215389.300	1.0	47.0489	10.03	-1.06	41262.000	1.5	253807.000	2.5
46.4287	9.02	-2.29	51560.600	.5	266944.700	.5	47.0575	24.04	-1.31	15500.000	0.0	228006.000	1.0
46.4289	9.02	-3.56	51561.400	1.5	266944.700	.5	47.0710	24.04	-2.10	16052.000	2.0	228497.000	2.0
46.4304	8.01	-1.66	40466.900	1.5	255843.100	1.5	47.0894	23.03	-3.98	42462.100	0.0	254824.100	1.0
46.4307	8.01	-1.06	40468.400	.5	255843.100	1.5	47.0983	24.04	-1.69	15684.000	1.0	228006.000	1.0
46.4332	18.03	-3.92	34856.200	.5	250219.450	.5	47.1447	25.03	-5.95	552.200	3.0	212665.300	4.0
46.4475	24.04	-1.53	13200.000	2.0	228497.000	2.0	47.1448	25.03	-7.60	286.800	2.0	212399.300	3.0
46.4613	16.05	.55	247420.000	1.5	462653.000	2.5	47.1515	8.01	-6.13	26810.700	2.5	238892.960	2.5
46.4682	16.05	.71	247452.000	2.5	462653.000	3.5	47.1519	25.03	-5.20	885.800	4.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
47.3507	9.01	-6.14	20873.400	2.0	232063.340	1.0	48.2445	18.01	-3.61	0.000	.5	207277.350	1.5
47.3867	16.02	-2.68	297.200	1.0	211326.800	1.0	48.2455	26.02	-.51	0.000	4.0	207273.230	5.0
47.3923	18.02	-.06	0.000	2.0	211004.850	2.0	48.2467	26.02	-1.37	0.000	4.0	207268.200	4.0
47.3995	7.01	-5.14	130.800	2.0	211103.630	3.0	48.2477	18.01	-1.52	1431.410	1.5	208695.070	1.5
47.4480	8.01	-4.28	40466.900	1.5	251224.100	2.5	48.2479	26.02	-2.55	0.000	4.0	207263.000	3.0
47.4493	7.01	-1.58	0.000	0.0	210751.430	1.0	48.2528	18.01	-1.35	1431.410	1.5	208673.320	2.5
47.4546	7.01	-1.54	48.700	1.0	210776.450	0.0	48.2707	19.04	-3.49	0.000	1.5	207165.000	2.5
47.4602	7.01	-1.63	48.700	1.0	210751.430	1.0	48.2935	24.04	-1.94	22060.000	4.0	229127.000	3.0
47.4706	7.01	-1.50	48.700	1.0	210705.260	2.0	48.2975	18.01	-2.37	1431.410	1.5	208481.660	.5
47.4787	7.01	-1.44	130.800	2.0	210751.430	1.0	48.2987	10.04	-.09	1112.000	2.0	208157.000	1.0
47.4891	7.01	-.94	130.800	2.0	210705.260	2.0	48.2987	10.04	-.89	1112.000	2.0	208157.000	2.0
47.4916	19.02	-1.01	2162.000	.5	212725.400	1.5	48.3099	23.04	-.36	620.000	2.5	207617.000	1.5
47.5072	16.02	-2.66	832.500	2.0	211326.800	1.0	48.3156	8.01	-6.54	0.000	1.5	206972.300	1.5
47.5153	8.02	-.44	0.000	0.0	210458.500	1.0	48.3159	8.01	-5.59	0.000	1.5	206971.300	2.5
47.5169	18.02	.22	1112.400	1.0	211563.830	1.0	48.3331	18.01	-3.77	1431.410	1.5	208329.080	.5
47.5181	24.04	-3.75	15684.000	1.0	226130.000	2.0	48.3484	26.02	-.68	436.200	3.0	207268.200	4.0
47.5284	16.02	-1.54	297.200	1.0	210697.600	2.0	48.3496	26.02	-1.23	436.200	3.0	207263.000	3.0
47.5410	8.02	-.58	113.900	1.0	210458.500	1.0	48.3510	26.02	-2.25	436.200	3.0	207257.000	2.0
47.5598	15.04	-1.17	204197.100	1.5	414458.700	2.5	48.3516	18.01	-2.19	1431.410	1.5	208249.740	1.5
47.5610	9.02	-5.58	0.000	1.5	210256.300	1.5	48.3557	17.04	-4.77	146644.000	.5	353445.000	.5
47.5623	15.04	-.01	204208.300	2.5	414458.700	3.5	48.3715	8.01	-.66	26810.700	2.5	233544.090	1.5
47.5623	15.04	-1.31	204208.300	2.5	414458.700	2.5	48.3746	19.04	-4.02	0.000	1.5	206720.000	1.5
47.5643	9.02	-4.63	0.000	1.5	210261.700	2.5	48.3761	8.01	-1.91	26830.500	1.5	233544.090	1.5
47.5647	7.01	-1.00	0.000	0.0	210239.830	1.0	48.3800	12.03	-4.80	597071.900	1.5	803769.000	.5
47.5698	7.01	-.64	48.700	1.0	210266.040	2.0	48.3804	12.03	-2.62	604666.600	1.5	811362.000	1.5
47.5710	18.02	.78	0.000	2.0	210212.260	3.0	48.4028	8.01	-.94	26830.500	1.5	233430.100	.5
47.5757	7.01	-1.14	48.700	1.0	210239.830	1.0	48.4073	18.01	-1.33	1431.410	1.5	208011.810	1.5
47.5803	7.01	-.39	130.800	2.0	210301.680	3.0	48.4170	16.02	-1.39	0.000	0.0	206538.870	1.0
47.5847	8.02	-1.81	306.900	2.0	210458.500	1.0	48.4178	12.03	-3.16	604007.400	2.5	810543.000	1.5
47.5884	7.01	-1.16	130.800	2.0	210266.040	2.0	48.4182	12.03	-3.52	603143.300	3.5	809677.000	2.5
47.5902	9.01	-6.80	20873.400	2.0	231000.790	1.0	48.4201	19.02	-2.98	2162.000	.5	208687.800	1.5
47.5904	9.01	-6.18	20873.400	2.0	230999.780	2.0	48.4205	26.02	-.87	738.900	2.0	207263.000	3.0
47.5907	9.01	-6.16	20873.400	2.0	230998.600	3.0	48.4219	26.02	-1.25	738.900	2.0	207257.000	2.0
47.5943	7.01	-2.36	130.800	2.0	210239.830	1.0	48.4230	26.02	-2.25	738.900	2.0	207252.500	1.0
47.6014	24.04	-3.07	16052.000	2.0	226130.000	2.0	48.4272	12.03	-4.98	596527.300	2.5	803023.000	2.5
47.6205	18.02	.03	1570.200	0.0	211563.830	1.0	48.4556	16.02	-1.03	297.200	1.0	206671.610	2.0
47.6358	16.02	-1.64	0.000	0.0	209926.100	1.0	48.4612	23.04	-.61	0.000	1.5	206350.600	.5
47.6434	18.02	.40	1112.400	1.0	211004.850	2.0	48.4665	26.02	-3.60	0.000	4.0	206328.220	3.0
47.6469	7.01	-3.86	48.700	1.0	209925.760	2.0	48.4673	26.02	-1.10	932.400	1.0	207257.000	2.0
47.6497	16.02	-1.06	832.500	2.0	210697.600	2.0	48.4684	26.02	-1.41	932.400	1.0	207252.500	1.0
47.6589	17.02	-4.17	29905.600	1.5	239729.900	2.5	48.4696	18.01	-1.36	1431.410	1.5	207746.380	2.5
47.6656	7.01	-4.40	130.800	2.0	209925.760	2.0	48.4822	26.02	-3.79	0.000	4.0	206261.330	4.0
47.6858	19.03	-2.87	16384.000	2.0	226090.000	1.0	48.4868	16.02	-1.59	297.200	1.0	206538.870	1.0
47.6887	17.02	-3.70	29812.800	.5	239506.300	1.5	48.4907	26.02	-1.41	1027.300	0.0	207252.500	1.0
47.7033	16.02	-1.77	297.200	1.0	209926.100	1.0	48.5012	26.02	-4.74	0.000	4.0	206180.410	3.0
47.7042	7.01	-4.55	48.700	1.0	209673.650	2.0	48.5087	8.01	-.32	26810.700	2.5	232959.260	3.5
47.7083	7.01	-3.45	130.800	2.0	209737.970	3.0	48.5252	16.02	-.76	832.500	2.0	206910.970	3.0
47.7098	17.02	-5.17	29905.600	1.5	239506.300	1.5	48.5352	19.03	-.04	16384.000	2.0	222420.000	3.0
47.7105	18.01	-1.44	0.000	.5	209597.450	1.5	48.5471	8.01	-1.54	26810.700	2.5	232796.270	2.5
47.7229	7.01	-5.09	130.800	2.0	209673.650	2.0	48.5518	8.01	-.29	26830.500	1.5	232796.270	2.5
47.7381	16.02	-1.59	297.200	1.0	209773.400	0.0	48.5552	12.03	-4.78	597071.900	1.5	803023.000	2.5
47.7415	19.02	-4.83	0.000	1.5	209461.300	.5	48.5571	8.01	-.59	26810.700	2.5	232753.860	3.5
47.7524	18.01	-1.77	0.000	.5	209413.480	1.5	48.5586	8.01	-3.10	26810.700	2.5	232747.510	2.5
47.7674	24.04	-4.09	22060.000	4.0	231408.000	4.0	48.5589	8.01	-2.78	26810.700	2.5	232745.980	1.5
47.7855	18.01	-1.28	0.000	.5	209268.310	1.5	48.5602	7.01	-2.61	15316.200	2.0	221246.170	1.0
47.7913	11.05	-1.03	1005068.000	1.0	1214311.000	2.0	48.5633	8.01	-1.98	26830.500	1.5	232747.510	2.5
47.8100	25.03	-6.38	99.000	1.0	209260.200	2.0	48.5636	8.01	-3.74	26830.500	1.5	232745.980	1.5
47.8255	16.02	-1.52	832.500	2.0	209926.100	1.0	48.5691	26.02	-4.18	436.200	3.0	206328.220	3.0
47.8329	19.03	-.53	16384.000	2.0	225445.000	2.0	48.5699	26.02	-4.32	436.200	3.0	206324.890	2.0
47.8403	25.03	-5.84	286.800	2.0	209315.500	3.0	48.5717	8.01	-3.22	26830.500	1.5	232711.700	.5
47.8709	25.03	-5.75	552.200	3.0	209447.500	4.0	48.5728	12.03	-3.45	604666.600	1.5	810543.000	.5
47.9006	18.01	-3.87	0.000	.5	208765.770	.5	48.5728	12.03	-2.97	604666.600	1.5	810543.000	1.5
47.9011	25.03	-6.42	552.200	3.0	209315.500	3.0	48.5800	18.01	-2.90	1431.410	1.5	207277.350	1.5
47.9048	8.02	-.34	197086.700	1.0	405834.100	2.0	48.5816	16.02	-1.68	832.500	2.0	206671.610	2.0
47.9114	8.02	-.81	197086.700	1.0	405805.100	1.0	48.5849	26.02	-4.51	436.200	3.0	206261.330	4.0
47.9138	25.03	-9.30	552.200	3.0	209260.200	2.0	48.5849	7.01	-.65	15316.200	2.0	221141.610	3.0
47.9168	18.01	-1.74	0.000	.5	208695.070	1.5	48.5854	11.05	-3.95	35518.000	2.0	241341.000	1.0
47.9170	18.01	-.82	1431.410	1.5	210125.700	2.5	48.5854	11.05	-4.17	35518.000	2.0	241341.000	2.0
47.9185	19.02	-1.82	0.000	1.5	208687.800	1.5	48.5915	26.02	-2.58	436.200	3.0	206233.310	2.0
47.9391	11.05	-.54	1005713.000	2.0	1214311.000	2.0	48.5946	19.04	-3.37	0.000	1.5	205784.000	.5
47.9474	25.03	-5.53	885.800	4.0	209447.500	4.0	48.5975	8.01	-2.56	26830.500	1.5	232602.570	.5
47.9658	18.01	-2.24	0.000	.5	208481.660	.5	48.6040	26.02	-3.18	436.200	3.0	206180.410	3.0
47.9778	25.03	-8.17	885.800	4.0	209315.500	3.0	48.6068	26.02	-2.35	0.000	4.0	205732.370	3.0
48.0010	18.01	-3.50	0.000	.5	208329.080	.5	48.6085	8.01	-2.37	26810.700	2.5	232536.060	1.5
48.0151	24.04	-4.01	22060.000	4.0	230328.000	3.0	48.6130	16.02	-2.94	832.500	2.0	206538.870	1.0
48.0193	18.01	-2.97	0.000	.5	208249.740	1.5	48.6132	8.01	-3.17	26830.500	1.5	232536.060	1.5
48.0296	18.04	-.24	16300.000	2.0	224505.000	3.0	48.6176	17.03	-1.12	13767.000	2.0	219454.000	1.0
48.0386	18.01	-2.17	1431.410	1.5	209597.450	1.5	48.6211	26.02	-1.22	0.000	4.0	205672.010	4.0
48.0407	10.04	-.79	0.000	0.0	208157.000	1.0	48.6217	12.03	-2.58	604007.400	2.5	809677.000	2.5
48.0742	18.01	-1.59	0.000	.5	208011.810	1.5	48.6230	18.01	-5.03	1431.410	1.5	207095.230	2.5
48.0811	18.01	-1.59	1431.410	1.5	209413.480	1.5	48.6258	8.0					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
48.8269	26.02	-1.76	932.400	1.0	205737.510	2.0	49.8446	18.01	-2.12	0.000	.5	200623.700	.5
48.8373	26.02	-2.36	932.400	1.0	205894.090	1.0	49.8617	26.02	-2.64	738.900	2.0	201293.750	2.0
48.8454	18.02	.33	0.000	2.0	204727.470	1.0	49.8644	15.02	-1.69	559.600	1.5	201103.400	.5
48.8541	14.02	-4.36	52724.690	0.0	257415.600	1.0	49.8693	26.02	-5.82	0.000	4.0	200524.120	5.0
48.8599	26.02	-1.98	1027.300	0.0	205694.090	1.0	49.8717	26.02	-6.16	0.000	4.0	200514.460	4.0
48.8624	26.02	-2.26	436.200	3.0	205092.530	4.0	49.8741	26.02	-6.01	0.000	4.0	200504.990	3.0
48.8717	8.01	-2.54	26810.700	2.5	231427.990	3.5	49.8895	15.02	-1.64	0.000	.5	200442.800	1.5
48.8839	26.02	-2.36	436.200	3.0	205002.470	3.0	49.8905	26.02	-3.51	738.900	2.0	201178.010	1.0
48.8849	14.02	-4.48	52853.280	1.0	257415.600	1.0	49.8934	26.02	-3.19	738.900	2.0	201166.350	3.0
48.8849	14.02	-4.00	52853.280	1.0	257415.600	2.0	49.8939	26.02	-2.23	738.900	2.0	201164.210	2.0
48.8851	10.02	-4.56	642.900	1.0	205204.000	0.0	49.8986	18.01	-3.72	0.000	.5	200406.360	.5
48.8903	8.01	-3.54	26810.700	2.5	231350.080	2.5	49.9067	10.04	-4.82	641646.000	3.0	842020.000	3.0
48.8951	8.01	-2.81	26830.500	1.5	231350.080	2.5	49.9067	10.04	-1.72	641646.000	3.0	842020.000	2.0
48.8962	18.01	-1.41	0.000	.5	204515.000	.5	49.9098	26.02	-3.22	932.400	1.0	201293.750	2.0
48.8981	26.02	-3.38	436.200	3.0	204943.260	2.0	49.9126	18.01	-2.91	1431.410	1.5	201781.790	2.5
48.9033	8.01	-4.49	26810.700	2.5	231296.050	1.5	49.9156	26.02	-5.03	19404.800	2.0	219743.040	1.0
48.9080	8.01	-4.23	26830.500	1.5	231296.050	1.5	49.9160	18.02	-1.33	14010.000	2.0	214346.700	1.0
48.9106	18.01	-4.66	0.000	.5	204417.230	1.5	49.9278	18.01	-3.61	1431.410	1.5	201720.670	1.5
48.9475	14.02	-4.54	53115.010	2.0	257415.600	2.0	49.9374	26.02	-5.58	19404.800	2.0	219655.550	2.0
48.9475	14.02	-3.79	53115.010	2.0	257415.600	3.0	49.9387	26.02	-3.01	932.400	1.0	201178.010	1.0
48.9495	8.02	-3.69	197086.700	1.0	401379.000	2.0	49.9406	26.02	-4.88	932.400	1.0	201170.100	0.0
48.9495	10.02	.01	0.000	2.0	204292.000	2.0	49.9421	26.02	-3.09	932.400	1.0	201164.210	2.0
48.9520	16.02	-2.57	297.200	1.0	204578.890	2.0	49.9597	26.02	-4.07	19404.800	2.0	219566.080	3.0
48.9564	26.02	-3.25	738.900	2.0	205002.470	2.0	49.9621	18.01	-4.61	0.000	.5	200151.640	1.5
48.9572	11.05	-4.14	0.000	0.0	204260.000	1.0	49.9624	26.02	-3.56	1027.300	0.0	201178.010	1.0
48.9624	16.02	-2.22	832.500	2.0	205070.750	3.0	49.9682	30.02	-2.33	78096.300	3.0	278223.600	3.0
48.9629	10.02	-4.69	642.900	1.0	204879.000	1.0	49.9724	18.01	-3.38	0.000	.5	200110.380	.5
48.9706	26.02	-2.67	738.900	2.0	204943.260	2.0	49.9804	26.02	-5.81	436.200	3.0	200514.460	4.0
48.9792	26.02	-3.55	738.900	2.0	204907.130	1.0	49.9828	26.02	-5.79	436.200	3.0	200504.990	3.0
49.0170	26.02	-3.38	932.400	1.0	204943.260	2.0	49.9877	8.01	-1.47	40466.900	1.5	240516.280	1.5
49.0257	26.02	-3.04	932.400	1.0	204907.130	1.0	49.9880	8.01	-2.16	40466.900	1.5	240516.280	1.5
49.0296	10.02	-4.56	920.400	0.0	204879.000	1.0	49.9884	25.03	-6.18	286.800	2.0	200333.200	3.0
49.0485	26.02	-3.45	1027.300	0.0	204907.130	1.0	49.9919	18.01	-2.38	0.000	.5	200032.230	1.5
49.0550	9.03	-5.55	53537.000	0.0	257390.000	1.0	49.9985	16.02	-4.96	11320.800	2.0	211326.800	1.0
49.0552	20.02	-3.78	0.000	0.0	203851.950	1.0	50.0025	12.03	-4.34	597071.900	1.5	797062.000	.5
49.0649	18.01	-4.65	1431.410	1.5	205242.970	.5	50.0045	18.01	-4.59	0.000	.5	199981.940	1.5
49.0701	18.01	-4.98	1431.410	1.5	205221.470	1.5	50.0148	18.02	-4.46	14010.000	2.0	213950.870	2.0
49.0806	16.02	-3.33	832.500	2.0	204578.890	2.0	50.0200	18.01	-3.02	1431.410	1.5	201351.550	2.5
49.1041	10.02	-4.47	642.900	1.0	204292.000	2.0	50.0216	18.01	-3.44	1431.410	1.5	201345.220	1.5
49.1123	18.02	-4.44	1112.400	1.0	204727.470	1.0	50.0292	15.02	-1.40	559.600	1.5	200442.800	2.5
49.1251	11.05	-4.28	698.000	1.0	204260.000	1.0	50.0292	15.02	-2.35	559.600	1.5	200442.800	1.5
49.1307	7.02	-4.92	131003.500	.5	334542.200	1.5	50.0346	8.01	-2.15	40466.900	1.5	240328.750	.5
49.1343	11.05	-4.99	698.000	1.0	204222.000	2.0	50.0349	8.01	-1.85	40466.900	1.5	240328.750	.5
49.1565	8.02	-1.05	197086.700	1.0	400518.400	0.0	50.0548	25.03	-6.92	552.200	3.0	200333.200	3.0
49.1695	8.02	-1.18	197086.700	1.0	400464.700	1.0	50.0585	26.02	-6.07	738.900	2.0	200504.990	3.0
49.1961	8.02	-4.94	197086.700	1.0	400354.800	2.0	50.0655	25.03	-5.38	552.200	3.0	200290.400	4.0
49.2078	15.04	-2.03	272961.100	.5	476181.000	1.5	50.0749	26.02	-3.33	0.000	4.0	199700.830	4.0
49.2078	15.04	-2.33	272961.100	.5	476181.000	.5	50.0849	26.02	-5.88	0.000	4.0	199660.840	5.0
49.2229	18.02	-1.15	1570.200	0.0	204727.470	1.0	50.0993	26.02	-3.70	0.000	4.0	199603.610	4.0
49.2237	18.01	-4.43	1431.410	1.5	204585.640	2.5	50.1005	18.01	-4.01	1431.410	1.5	201030.300	.5
49.2408	18.01	-1.68	1431.410	1.5	204515.000	.5	50.1014	26.02	-4.62	0.000	4.0	199595.300	3.0
49.2645	18.01	-1.94	1431.410	1.5	204417.230	1.5	50.1190	18.01	-1.19	0.000	.5	199525.150	1.5
49.3337	17.03	-2.87	13767.000	2.0	216468.100	2.0	50.1207	26.02	-4.56	19404.800	2.0	218923.080	3.0
49.3572	26.03	-2.75	0.000	2.5	202604.700	3.5	50.1219	7.01	-1.61	15316.200	2.0	214829.790	1.0
49.3847	10.04	-2.75	640422.000	1.0	842914.000	1.0	50.1260	30.02	-1.27	78096.300	3.0	277593.400	4.0
49.3847	10.04	-2.62	640422.000	1.0	842914.000	0.0	50.1323	12.03	-4.95	597589.900	.5	797062.000	.5
49.3847	10.04	-3.92	640422.000	1.0	842914.000	2.0	50.1365	26.02	-5.07	19404.800	2.0	218860.430	2.0
49.4066	11.05	-4.35	1858.000	2.0	204260.000	1.0	50.1385	25.03	-5.93	885.800	4.0	200333.200	3.0
49.4101	9.03	-4.52	452081.100	2.0	654469.000	3.0	50.1387	18.01	-4.90	0.000	.5	199446.540	.5
49.4159	11.05	-4.49	1858.000	2.0	204222.000	2.0	50.1493	25.03	-5.71	885.800	4.0	200290.400	4.0
49.4213	18.04	-3.20	16300.000	2.0	218642.000	1.0	50.1563	16.02	-3.94	11320.800	2.0	210697.600	2.0
49.4253	26.03	-3.40	0.000	2.5	202325.400	2.5	50.1594	26.02	-2.99	20051.100	6.0	219415.610	5.0
49.4381	11.05	-4.24	1858.000	2.0	204131.000	3.0	50.1740	25.03	-4.63	885.800	4.0	200192.200	5.0
49.4559	26.02	-1.53	0.000	4.0	202200.510	3.0	50.1845	26.02	-3.22	436.200	3.0	199700.830	4.0
49.4647	26.03	-4.34	0.000	2.5	202082.600	1.5	50.1851	26.02	-2.81	0.000	4.0	199262.440	3.0
49.4937	10.04	-2.26	640868.000	2.0	842914.000	1.0	50.1976	26.02	-1.76	0.000	4.0	199212.720	4.0
49.4937	10.04	-2.74	640868.000	2.0	842914.000	2.0	50.2027	18.01	-2.36	1431.410	1.5	200623.700	.5
49.5017	9.03	-3.43	451819.600	1.0	653833.000	0.0	50.2081	26.02	-2.96	20300.800	5.0	219471.970	4.0
49.5017	9.03	-3.78	451819.600	1.0	653833.000	1.0	50.2090	26.02	-4.07	436.200	3.0	199603.610	4.0
49.5084	18.04	-2.22	16300.000	2.0	218286.000	2.0	50.2111	26.02	-4.43	436.200	3.0	199595.300	3.0
49.5166	9.03	-4.98	451819.600	1.0	653772.000	2.0	50.2155	26.02	-5.53	436.200	3.0	199577.710	2.0
49.5426	26.02	-1.90	436.200	3.0	202282.650	2.0	50.2160	26.02	-1.88	0.000	4.0	199139.760	5.0
49.5628	26.02	-2.70	436.200	3.0	202200.510	3.0	50.2163	18.01	-2.89	0.000	.5	199138.450	1.5
49.5658	9.03	-3.10	452081.100	2.0	653833.000	1.0	50.2205	12.03	-3.63	612240.300	1.5	811362.000	1.5
49.5735	18.01	-3.26	0.000	.5	201720.670	1.5	50.2223	26.02	-5.31	20300.800	5.0	219415.610	5.0
49.5808	9.03	-3.86	452081.100	2.0	653772.000	2.0	50.2232	26.02	-3.87	20051.100	6.0	219162.420	6.0
49.5977	17.03	-1.80	13767.000	2.0	215389.300	1.0	50.2300	26.02	-4.33	20481.900	4.0	219566.080	3.0
49.6037	10.04	-1.75	640422.000	1.0	842020.000	2.0	50.2341	7.01	-6.56	15316.200	2.0	214384.130	2.0
49.6037	10.04	-1.28	640422.000	1.0	842020.000	1.0	50.2375	26.02	-5.32	20688.400	1.0	219743.040	1.0
49.6043	26.02	-1.91	738.900	2.0	202334.390	1.0	50.2407	26.02	-5.83	20051.100	6.0	219092.860	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
50.3650	18.01	-1.22	1431.410	1.5	199981.940	1.5
50.3691	26.02	-3.86	21208.500	0.0	219743.040	1.0
50.3707	18.01	-4.05	1431.410	1.5	199959.620	2.5
50.3719	26.02	-1.25	738.900	2.0	199262.440	3.0
50.3721	26.02	-4.40	20481.900	4.0	219004.530	4.0
50.3876	19.04	-3.52	24249.500	2.5	222711.000	1.5
50.3928	26.02	-4.33	20481.900	4.0	218923.080	3.0
50.4044	26.02	-1.77	932.400	1.0	199327.950	1.0
50.4114	26.02	-1.48	932.400	1.0	199300.150	2.0
50.4148	19.04	-5.09	24012.700	1.5	222367.000	2.5
50.4188	26.02	-3.92	0.000	4.0	198338.620	4.0
50.4192	26.02	-5.28	0.000	4.0	198337.060	3.0
50.4193	26.02	-3.47	0.000	4.0	198336.580	5.0
50.4280	12.03	-3.33	612240.300	1.5	810543.000	.5
50.4280	12.03	-4.45	612240.300	1.5	810543.000	1.5
50.4285	26.02	-1.78	1027.300	0.0	199327.950	1.0
50.4334	26.02	-1.84	436.200	3.0	198717.600	4.0
50.4376	8.01	-4.79	40466.900	1.5	238731.540	1.5
50.4418	18.01	-1.39	1431.410	1.5	199679.760	2.5
50.4483	26.02	-6.33	436.200	3.0	198658.800	3.0
50.4612	26.02	-3.76	20688.400	1.0	218660.430	2.0
50.4751	19.04	-3.48	24249.500	2.5	222367.000	2.5
50.4786	26.02	-4.33	21462.200	4.0	219566.080	3.0
50.4812	18.01	-1.60	1431.410	1.5	199525.150	1.5
50.5012	18.01	-1.45	1431.410	1.5	199446.540	.5
50.5026	26.02	-5.26	21462.200	4.0	219471.970	4.0
50.5164	26.02	-3.41	21699.900	3.0	219655.550	2.0
50.5169	26.02	-3.26	21462.200	4.0	219415.610	5.0
50.5255	26.02	-6.04	738.900	2.0	198658.800	3.0
50.5300	26.02	-3.34	436.200	3.0	198338.620	4.0
50.5304	26.02	-4.11	436.200	3.0	198337.060	3.0
50.5312	26.02	-5.35	436.200	3.0	198333.560	2.0
50.5342	26.02	-3.31	21857.200	2.0	219743.040	1.0
50.5392	26.02	-4.06	21699.900	3.0	219566.080	3.0
50.5411	7.01	-3.57	0.000	0.0	197858.690	1.0
50.5436	20.04	-1.95	0.000	2.0	197849.000	1.0
50.5536	7.01	-3.67	48.700	1.0	197858.690	1.0
50.5565	26.02	-5.89	21857.200	2.0	219655.550	2.0
50.5633	26.02	-3.41	21699.900	3.0	219471.970	4.0
50.5746	7.01	-3.50	130.800	2.0	197858.690	1.0
50.5794	26.02	-4.31	21857.200	2.0	219566.080	3.0
50.5799	18.01	-2.05	1431.410	1.5	199138.450	1.5
50.5986	7.01	-1.30	46784.600	2.0	244418.520	1.0
50.5994	26.02	-4.03	21462.200	4.0	219092.860	5.0
50.6054	7.01	-1.08	46784.600	2.0	244391.880	2.0
50.6076	25.03	-4.41	286.800	2.0	197885.500	3.0
50.6078	26.02	-3.80	738.900	2.0	198337.060	3.0
50.6087	26.02	-4.44	738.900	2.0	198333.560	2.0
50.6118	23.04	-1.36	206350.600	.5	403933.000	.5
50.6153	7.01	.07	46784.600	2.0	244353.310	3.0
50.6191	18.02	-2.42	14010.000	2.0	211563.830	1.0
50.6200	2.00	-2.92	0.000	0.0	197550.375	0.0
50.6221	26.02	-2.86	21462.200	4.0	219004.530	4.0
50.6429	26.02	-3.48	21462.200	4.0	218923.080	3.0
50.6442	25.03	-4.66	99.000	1.0	197554.800	2.0
50.6491	12.03	-3.51	612240.300	1.5	809677.000	2.5
50.6570	2.00	-2.82	0.000	0.0	197406.084	0.0
50.6583	26.02	-4.32	932.400	1.0	198333.560	2.0
50.6634	18.01	-4.25	1431.410	1.5	198812.550	2.5
50.6757	25.03	-4.36	552.200	3.0	197885.500	3.0
50.6830	26.02	-2.96	21699.900	3.0	219004.530	4.0
50.6925	25.03	-5.52	286.800	2.0	197554.800	2.0
50.6986	11.04	-1.74	372734.000	1.5	569978.000	.5
50.7040	26.02	-3.01	21699.900	3.0	218923.080	3.0
50.7058	2.00	-2.68	0.000	0.0	197216.098	0.0
50.7201	26.02	-3.46	21699.900	3.0	218860.430	2.0
50.7369	25.03	-5.14	0.000	0.0	197095.400	1.0
50.7391	8.02	-1.69	0.000	0.0	197086.700	1.0
50.7445	26.02	-3.18	21857.200	2.0	218923.080	3.0
50.7507	14.02	-2.88	52724.690	0.0	249766.190	1.0
50.7606	26.02	-2.87	21857.200	2.0	218860.430	2.0
50.7608	25.03	-5.26	552.200	3.0	197554.800	2.0
50.7615	25.03	-4.33	885.800	4.0	197885.500	3.0
50.7623	25.03	-6.09	99.000	1.0	197095.400	1.0
50.7627	18.02	.17	14010.000	2.0	211004.850	2.0
50.7663	19.03	-3.01	38546.000	0.0	235527.000	1.0
50.7684	8.02	-1.78	113.900	1.0	197086.700	1.0
50.7718	2.00	-2.56	0.000	0.0	196959.730	0.0
50.7746	9.03	-2.09	456884.300	1.0	653833.000	0.0
50.7746	9.03	-1.64	456884.300	1.0	653833.000	1.0
50.7839	14.02	-2.40	52853.280	1.0	249766.190	1.0
50.7904	9.03	-1.46	456884.300	1.0	653772.000	2.0
50.7904	7.02	-1.18	145876.100	.5	342763.700	.5
50.8086	7.02	-1.52	145876.100	.5	342693.000	1.5
50.8108	25.03	-6.24	286.800	2.0	197095.400	1.0
50.8182	8.02	-1.59	306.900	2.0	197086.700	1.0
50.8189	7.02	-1.44	145986.500	1.5	342763.700	.5
50.8372	7.02	-1.80	145986.500	1.5	342693.000	1.5
50.8386	9.02	-1.51	51560.600	.5	248261.400	.5
50.8388	9.02	-1.23	51561.400	1.5	248261.400	.5
50.8484	7.01	-1.77	48.700	1.0	196711.540	2.0
50.8515	14.02	-2.18	53115.010	2.0	249766.190	1.0
50.8643	2.00	-2.40	0.000	0.0	196601.546	0.0
50.8668	7.01	-1.87	0.000	0.0	196592.070	1.0
50.8697	7.01	-1.29	130.800	2.0	196711.540	2.0
50.8783	26.03	-3.98	0.000	2.5	196547.300	3.5
50.8794	7.01	-1.99	48.700	1.0	196592.070	1.0
50.8928	7.01	-1.86	48.700	1.0	196540.230	0.0
50.9006	7.01	-1.77	130.800	2.0	196592.070	1.0
50.9246	14.02	-2.99	52724.690	0.0	249093.500	1.0
50.9340	26.03	-4.75	0.000	2.5	196332.600	2.5
50.9375	19.04	-4.12	0.000	1.5	196319.000	.5
50.9383	23.04	-1.05	207617.000	1.5	403933.000	.5
50.9553	14.02	-2.64	52853.280	1.0	249103.900	2.0
50.9580	14.02	-3.11	52853.280	1.0	249093.500	1.0
50.9582	7.02	-1.49	101023.800	2.5	297263.100	1.5
50.9602	7.02	-1.44	101031.500	1.5	297263.100	1.5
50.9678	18.02	-1.93	14010.000	2.0	210212.260	3.0
50.9723	26.03	-6.03	0.000	2.5	196184.900	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLG	EUP	JUP
50.9845	17.02	-4.93	0.000	1.5	196137.900	2.5
50.9895	7.02	-1.74	101031.500	1.5	297150.200	.5
50.9998	2.00	-2.23	0.000	0.0	196079.200	0.0
51.0090	11.04	-1.45	373934.000	.5	569978.000	.5
51.0152	7.01	-2.29	15316.200	2.0	211336.160	1.0
51.0188	14.02	-2.33	53115.010	2.0	249121.140	3.0
51.0233	14.02	-3.13	53115.010	2.0	249103.900	2.0
51.0260	14.02	-4.31	53115.010	2.0	249093.500	1.0
51.0338	25.02	-4.93	0.000	2.5	195948.440	3.5
51.0551	18.01	-1.32	0.000	.5	195866.760	1.5
51.0758	7.01	-1.32	15316.200	2.0	211103.630	3.0
51.0849	25.02	-5.89	0.000	2.5	195752.480	2.5
51.0952	16.05	-1.39	401164.000	.5	596877.000	1.5
51.0959	8.01	-5.44	0.000	1.5	195710.400	.5
51.1138	13.02	-2.30	0.000	.5	195641.740	1.5
51.1179	11.04	-1.05	372734.000	1.5	568360.000	1.5
51.1191	13.02	-2.60	0.000	.5	195621.720	.5
51.1268	25.02	-6.31	0.000	2.5	195592.090	1.5
51.1273	16.02	-3.87	11320.800	2.0	206910.970	3.0
51.1658	20.04	-3.32	2406.000	1.0	197849.000	1.0
51.1678	7.01	-6.91	15316.200	2.0	210751.430	1.0
51.1799	7.01	-4.66	15316.200	2.0	210705.260	2.0
51.1835	8.02	-1.58	210458.500	1.0	405834.100	2.0
51.1886	18.04	-1.28	0.000	0.0	195556.000	1.0
51.1900	16.02	-4.44	11320.800	2.0	206671.610	2.0
51.1911	8.02	-1.18	210458.500	1.0	405805.100	1.0
51.1991	25.02	-4.13	0.000	2.5	195315.780	2.5
51.2098	2.00	-2.07	0.000	0.0	195275.123	0.0
51.2116	17.02	-4.25	0.000	1.5	195268.200	1.5
51.2148	16.05	-1.12	401621.000	1.5	596877.000	2.5
51.2148	16.05	-2.07	401621.000	1.5	596877.000	1.5
51.2248	16.02	-5.49	11320.800	2.0	206538.870	1.0
51.2524	25.02	-5.97	0.000	2.5	195112.810	3.5
51.2588	25.03	-8.10	885.800	4.0	195974.100	5.0
51.2859	7.01	-4.95	15316.200	2.0	210301.680	3.0
51.2896	25.02	-5.44	0.000	2.5	194971.150	2.5
51.2927	17.02	-3.27	0.000	1.5	194959.500	2.5
51.2952	7.01	-5.46	15316.200	2.0	210266.040	2.0
51.3021	7.01	-5.78	15316.200	2.0	210239.830	1.0
51.3049	26.02	-6.28	24558.800	5.0	219471.970	4.0
51.3097	25.02	-5.09	0.000	2.5	194894.780	1.5
51.3197	26.02	-3.01	24558.800	5.0	219415.610	5.0
51.3218	25.02	-4.44	0.000	2.5	194849.100	1.5
51.3368	19.04	-2.76	0.000	1.5	194792.000	1.5
51.3549	30.02	-2.38	83500.300	2.0	278223.600	3.0
51.3644	9.01	-1.35	44918.100	0.0	239605.290	1.0
51.3808	26.02	-4.81	24940.900	4.0	219566.080	3.0
51.3849	7.01	-3.62	15316.200	2.0	209925.760	2.0
51.3865	26.02	-4.05	24558.800	5.0	219162.420	6.0
51.3898	18.04	-1.44	765.000	1.0	195356.000	1.0
51.3946	20.04	-3.02	3276.000	0.0	197849.000	1.0
51.4049	26.02	-4.80	24558.800	5.0	219092.860	5.0
51.4057	26.02	-4.24	24940.900	4.0	219471.970	4.0
51.4104	26.02	-6.51	25142.400	3.0	219655.550	2.0
51.4206	26.02	-5.86	24940.900	4.0	219415.610	5.0
51.4282	26.02	-2.41	24558.800	5.0	219004.530	4.0
51.4310	18.01	-2.23	1431.410	1.5	195866.760	1.5
51.4315	18.01	-1.09	1431.410	1.5	195864.640	2.5
51.4335	11.04	-1.75	373934.000	.5	568360.000	1.5
51.4341	26.02	-4.10	25142.400	3.0	219566.080	3.0
51.4346	7.01	-4.39	15316.200	2.0	209737.970	3.0
51.4516	7.01	-1.95	15316.200	2.0	209673.650	2.0
51.4590	26.02	-5.97	25142.400	3.0	219471.970	4.0
51.5060	26.02	-4.27	24940.900	4.0	219092.860	5.0
51.5118	14.03	-1.46	71287.540	.5	265417.950	.5
51.5185	12.05	-5.60	56340.000	1.5	250445.000	.5
51.5295	26.02	-3.00	24940.900	4.0	219004.530	4.0
51.5497	8.01	-1.41	40466.900	1.5	234454.450	2.5
51.5511	26.02	-2.79	24940.900	4.0	218923.080	3.0
51.5572	26.02	-2.52	20051.100	6.0	214010.320	5.0
51.5617	2.00	-1.81	0.000	0.0	193942.403	0.0
51.5635	8.01	-1.40	40466.900	1.5	234402.480	1.5
51.5639	8.01	-1.66	40468.400	.5	234402.480	1.5
51.5668	26.02	-1.91	20051.100	6.0	213974.420	6.0
51.5673	25.03	-4.29	286.800	2.0	194208.200	3.0
51.5831	26.02	-3.78	25142.400	3.0	219004.530	4.0
51.5920	9.03	-4.27	460640.600	2.0	654469.000	3.0
51.5980	13.03	-2.26	680862.900	1.0	874669.000	1.0
51.6047	26.02	-3.65	25142.400	3.0	218923.080	3.0
51.6129	16.02	-4.81	11320.800	2.0	205070.750	3.0
51.6138	26.02	-2.45	20300.800	5.0	214047.380	4.0
51.6214	26.02	-2.99	25142.400	3.0	218860.430	2.0
51.6237	26.02	-1.11	20300.800	5.0	214010.320	5.0
51.6333	26.02	-1.94	20300.800	5.0	213974.420	6.0
51.6344	14.03	-1.16	71748.640	1.5	265417.950	.5
51.6380	25.03	-4.62	552.200	3.0	194208.200	3.0
51.6421	25.03	-4.25	99.000	1.0	193739.600	2.0
51.6481	9.03	-2.22	460215.200	0.0	653833.000	1.0
51.6621	26.02	-1.10	20481.900	4.0	214047.380	4.0
51.6671	26.03	-2.90	0.000	2.5	193546.800	2.5
51.6720	26.02	-2.03	20481.900	4.0	214010.320	5.0
51.6764	26.02	-4.46	20051.100	6.0	213563.080	5.0
51.6801	25.02	-1.93	0.000	2.5	193498.070	3.5
51.6842	30.02	-2.69	78096.300	3.0	271579.200	3.0
51.6917	26.02	-2.24	20051.100	6.0	213505.730	6.0
51.6922	25.03	-5.08	286.800	2.0	193739.600	2.0
51.6937	9.03	-2.30	460385.800	1.0	653833.000	0.0
51.6937	9.03	-2.49	460385.800	1.0	653833.000	1.0
51.7045	26.02	-1.21	20051.100	6.0	213457.820	7.0
51.7100	9.03	-1.98	460385.800	1.0	653772.000	2.0
51.7107	26.03	-2.35	0.000	2.5	193383.500	3.5
51.7261	18.04	-1.67	2030.000	2.0	195356.000	1.0
51.7271	25.03	-2.84	885.800	4.0	194208.200	3.0
51.7414	26.03	-3.70	0.000	2.5	193268.700	1.5
51.7432	26.02	-2.36	20300.800	5.0	213563.080	5.0
51.7443	16.02	-2.92	11320.800	2.0	204578.890	2.0
51.7497	12.05	-4.67	56340.000	1.5	249578.000	1.5
51.7503	25.02	-1.06	0.000	2.5	193235.430	2.5
51.7553	16.03	-1.62	71524.000	1.5	264741.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
51.7553	12.05	-5.33	56361.000	2.5	249578.000	1.5	52.6345	7.01	-3.86	130.800	2.0	190120.240	1.0
51.7576	25.03	-6.42	552.200	3.0	193760.700	4.0	52.6449	19.03	-2.27	0.000	2.0	189952.000	3.0
51.7585	26.02	-1.28	20300.800	5.0	213505.730	6.0	52.6497	18.01	-1.10	0.000	5	189934.550	5
51.7619	9.03	-2.12	460640.600	2.0	653833.000	1.0	52.6603	8.02	-3.37	210458.500	1.0	400354.800	2.0
51.7632	25.03	-3.36	552.200	3.0	193739.600	2.0	52.6637	26.03	-3.34	0.000	2.5	189884.200	1.5
51.7782	9.03	-1.63	460640.600	2.0	653772.000	2.0	52.6734	25.03	-4.46	286.800	2.0	190135.900	2.0
51.7917	26.02	-1.35	20481.900	4.0	213563.080	5.0	52.6768	8.00	-4.01	0.000	2.0	189837.000	1.0
51.7928	8.01	-2.09	40466.900	1.5	233544.090	1.5	52.6862	25.03	-1.48	22862.000	3.0	212665.300	4.0
51.7932	8.01	-2.98	40468.400	5	233544.090	1.5	52.7063	25.03	-4.27	552.200	3.0	190282.800	3.0
51.8152	25.03	-7.97	885.800	4.0	193879.400	5.0	52.7065	19.03	-2.27	1673.000	1.0	191403.000	1.0
51.8182	13.03	-2.70	681686.700	0.0	874669.000	1.0	52.7131	25.03	-2.62	22959.100	4.0	212665.300	4.0
51.8187	25.03	-5.20	0.000	0.0	192980.700	1.0	52.7136	13.03	-1.81	681686.700	0.0	871391.000	1.0
51.8228	9.03	-1.07	460640.600	2.0	653606.000	3.0	52.7207	8.00	-6.52	158.265	1.0	189837.000	1.0
51.8234	8.01	-3.19	40466.900	1.5	233430.100	5	52.7333	28.03	-3.42	1188.400	3.5	190821.880	2.5
51.8238	8.01	-2.97	40468.400	5	233430.100	5	52.7398	8.00	-4.78	226.977	0.0	189837.000	1.0
51.8250	5.02	-1.52	0.000	0.0	192957.067	0.0	52.7403	25.03	-1.62	22791.000	2.0	212399.300	3.0
51.8274	25.02	-1.24	0.000	2.5	192948.290	1.5	52.7472	25.03	-4.81	552.200	3.0	190135.900	2.0
51.8336	16.03	-1.64	71180.000	5	264105.000	1.5	52.7512	28.03	-3.84	2040.900	2.5	191610.010	1.5
51.8453	25.03	-5.50	99.000	1.0	192980.700	1.0	52.7601	25.03	-2.78	22862.300	3.0	212399.300	3.0
51.8457	25.02	-2.99	0.000	2.5	192880.160	3.5	52.7618	19.03	12	1673.000	1.0	191204.000	2.0
51.8471	25.03	-6.14	885.800	4.0	193760.700	4.0	52.7685	18.04	-4.43	2030.000	2.0	191537.000	1.0
51.8909	18.01	-3.36	0.000	5	192712.000	1.5	52.7736	26.02	-3.79	24558.800	5.0	214047.380	4.0
51.8958	25.03	-3.89	286.800	2.0	192980.700	1.0	52.7760	25.03	-4.10	552.200	3.0	190032.400	4.0
51.9022	16.03	-2.24	72071.000	2.5	264741.000	2.5	52.7840	26.02	-2.27	24558.800	5.0	214010.320	5.0
51.9230	26.03	-1.79	0.000	2.5	192593.000	2.5	52.7871	25.03	-3.19	22959.100	4.0	212399.300	3.0
51.9251	26.02	-2.64	21462.200	4.0	214047.380	4.0	52.7926	14.02	-2.61	52724.690	0.0	242145.100	1.0
51.9262	16.03	-1.13	71524.000	1.5	264105.000	1.5	52.7940	26.02	-1.19	24558.800	5.0	213974.420	6.0
51.9267	16.03	-1.33	71180.000	5	263759.000	5	52.7964	28.03	-4.77	2618.800	1.5	192025.500	5
51.9274	25.02	-2.97	0.000	2.5	192576.420	2.5	52.7991	25.03	-4.13	885.800	4.0	190282.800	3.0
51.9351	26.02	-3.23	21462.200	4.0	214010.320	5.0	52.8030	26.02	-8.52	30088.840	3.0	219471.970	4.0
51.9763	12.03	-5.00	604666.600	1.5	797062.000	5	52.8285	14.02	-2.13	52853.280	1.0	242145.100	1.0
51.9772	25.02	-2.58	0.000	2.5	192392.200	3.5	52.8529	7.01	-3.00	130.800	2.0	189335.160	3.0
51.9844	25.02	-3.32	0.000	2.5	192365.520	1.5	52.8651	18.01	-4.59	1431.410	1.5	190592.170	1.5
51.9892	26.02	-3.01	21699.900	3.0	214047.380	4.0	52.8690	25.03	-3.63	885.800	4.0	190032.400	4.0
51.9941	8.01	-2.84	40466.900	1.5	232796.270	2.5	52.8803	26.02	-2.23	24940.900	4.0	214047.380	4.0
52.0006	30.02	-3.65	79273.600	2.0	271579.200	3.0	52.8882	19.03	-1.16	2325.000	0.0	191403.000	1.0
52.0073	8.01	-3.94	40466.900	1.5	232747.510	2.5	52.8906	26.02	-1.37	24940.900	4.0	214010.320	5.0
52.0077	8.01	-3.75	40466.900	1.5	232745.980	1.5	52.8909	8.01	-4.82	0.000	1.5	189068.370	1.5
52.0170	8.01	-4.63	40466.900	1.5	232711.700	5	52.8934	26.02	-5.35	30356.200	6.0	219415.610	5.0
52.0174	8.01	-4.59	40468.400	5	232711.700	5	52.9016	14.02	-1.91	53115.010	2.0	242145.100	1.0
52.0197	16.03	-1.63	71524.000	1.5	263759.000	5	52.9025	26.02	-5.48	30716.200	2.0	219743.040	1.0
52.0365	25.02	-2.52	0.000	2.5	192172.890	2.5	52.9052	26.02	-6.11	30725.800	1.0	219743.040	1.0
52.0466	8.01	-4.66	40466.900	1.5	232602.570	5	52.9089	26.02	-3.90	24558.800	5.0	213563.080	5.0
52.0470	8.01	-4.28	40468.400	5	232602.570	5	52.9125	28.03	-4.79	2618.800	1.5	191610.010	1.5
52.0560	26.02	-3.11	21462.200	4.0	213563.080	5.0	52.9249	26.02	-2.84	24558.800	5.0	213505.730	6.0
52.0611	19.02	-1.56	0.000	1.5	192082.000	2.5	52.9270	26.02	-5.07	30716.200	2.0	219655.550	2.0
52.0646	8.01	-4.56	40466.900	1.5	232536.060	1.5	52.9279	13.03	-1.92	685732.800	2.0	874669.000	1.0
52.0650	8.01	-3.87	40468.400	5	232536.060	1.5	52.9297	26.02	-4.36	30725.800	1.0	219655.550	2.0
52.0741	16.03	-1.60	72071.000	2.5	264105.000	1.5	52.9355	7.01	-1.30	0.000	0.0	188909.170	1.0
52.0799	25.02	-2.78	0.000	2.5	192012.750	1.5	52.9367	26.02	-1.34	25142.400	3.0	214047.380	4.0
52.0844	8.01	-2.83	40466.900	1.5	232462.830	2.5	52.9373	26.03	-5.51	0.000	2.5	188902.700	3.5
52.1377	13.03	-2.58	682869.300	1.0	874669.000	1.0	52.9413	8.01	-5.50	0.000	1.5	188888.380	5
52.1670	26.03	-1.84	0.000	2.5	191692.000	1.5	52.9413	7.01	-1.15	48.700	1.0	188937.240	0.0
52.1687	25.03	-3.42	21280.700	4.0	212966.500	5.0	52.9491	7.01	-1.16	48.700	1.0	188909.170	1.0
52.1907	12.05	-4.92	56340.000	1.5	247945.000	2.5	52.9521	26.02	-4.20	30716.200	2.0	219566.080	3.0
52.1964	12.05	-3.88	56361.000	2.5	247945.000	2.5	52.9637	7.01	-1.34	48.700	1.0	188857.370	2.0
52.2008	15.03	-1.91	105189.900	1.0	296757.800	2.0	52.9644	26.02	-8.69	30356.200	6.0	219162.420	6.0
52.2092	18.04	-5.53	0.000	0.0	191537.000	1.0	52.9667	26.02	-5.88	30857.800	3.0	219655.550	2.0
52.2115	12.03	-3.31	612240.300	1.5	803769.000	5	52.9714	28.03	-4.62	2040.900	2.5	190821.880	2.5
52.2213	2.00	-1.52	0.000	0.0	191492.743	0.0	52.9722	7.01	-1.04	130.800	2.0	188909.170	1.0
52.2216	25.03	-2.00	21474.800	5.0	212966.500	5.0	52.9790	19.02	26	2162.000	5	190916.000	1.5
52.2280	9.02	-3.31	210256.300	1.5	401724.430	5	52.9839	26.02	-5.75	30356.200	6.0	219092.860	5.0
52.2450	10.03	-1.66	62417.000	5	253823.000	1.5	52.9867	7.01	-5.50	130.800	2.0	188857.370	2.0
52.2458	19.03	-1.38	0.000	2.0	191403.000	1.0	52.9902	18.02	-2.25	0.000	2.0	188714.050	3.0
52.2466	10.03	-1.32	62423.000	1.5	253823.000	1.5	52.9918	26.02	-4.06	30857.800	3.0	219566.080	3.0
52.2508	25.03	-2.14	21280.700	4.0	212665.300	4.0	52.9999	26.02	-1.96	30886.400	4.0	219566.080	3.0
52.2510	10.03	-1.40	62423.000	1.5	253807.000	2.5	53.0031	25.03	-4.20	885.800	4.0	189558.900	5.0
52.2774	25.03	-1.80	21679.300	6.0	212966.500	5.0	53.0037	7.02	-4.41	145876.100	5	334542.200	1.5
52.2792	18.01	-1.23	1431.410	1.5	192712.000	1.5	53.0058	25.03	-4.24	552.200	3.0	189210.900	4.0
52.3002	19.03	-1.28	0.000	2.0	191204.000	2.0	53.0160	26.02	-3.12	24940.900	4.0	213563.080	5.0
52.3039	25.03	-1.96	21474.800	5.0	212665.300	4.0	53.0183	26.02	-4.29	30857.800	3.0	219471.970	4.0
52.3217	18.01	-1.08	1431.410	1.5	192556.840	2.5	53.0263	26.02	-7.73	30886.400	4.0	219471.970	4.0
52.3235	25.03	-1.05	21280.700	4.0	212399.300	3.0	53.0272	7.02	-1.15	145986.500	1.5	334568.900	2.5
52.3659	9.02	-1.05	210241.700	2.5	401205.780	1.5	53.0343	7.01	-1.26	32688.800	0.0	221246.170	1.0
52.3699	9.02	-1.01	210256.300	1.5	401205.780	1.5	53.0347	26.02	-1.11	145986.500	1.5	334542.200	1.5
52.3778	8.02	-1.17	210458.500	1.0	401379.000	2.0	53.0422	26.02	-5.89	30886.400	4.0	219415.610	5.0
52.3791	19.02	-1.08	0.000	1.5	190916.000	1.5	53.0443	13.03	-1.42	682869.300	1.0	871391.000	1.0
52.3881	8.01	-4.36	40466.900	1.5	231350.080	2.5	53.0455	18.02	-2.39	0.000	2.0	188517.320	1.0
52.3917	9.03	-1.07	519890.000	2.0	710760.000	3.0	53.0495	18.01	-1.34	1431.410	1.5	189934.550	5
52.4029	8.01	-4.56	40466.900	1.5	231296.050	1.5	53.0590	25.03	-4.68	28			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
53.2316	26.02	-3.97	19404.800	2.0	207263.000	3.0	53.7588	13.03	-1.53	688653.000	1.0	874669.000	1.0
53.2333	26.02	-4.35	19404.800	2.0	207257.000	2.0	53.7620	17.03	.70	1341.000	2.0	187346.000	3.0
53.2346	26.02	-5.35	19404.800	2.0	207252.500	1.0	53.7749	26.02	-2.72	20300.800	5.0	206261.330	4.0
53.2416	18.02	-1.86	0.000	2.0	187823.050	2.0	53.7831	8.01	.13	26830.500	1.5	212762.400	.5
53.2618	6.01	-1.23	43003.300	.5	230755.100	1.5	53.7908	17.01	-1.26	0.000	2.0	185905.400	1.0
53.2659	6.01	-.82	43025.300	1.5	230762.600	2.5	53.7975	28.03	-.29	0.000	4.5	185882.170	3.5
53.2680	6.01	-1.12	43025.300	1.5	230755.100	1.5	53.8024	17.01	-.35	0.000	2.0	185865.200	3.0
53.2705	6.01	-.55	43053.600	2.5	230774.900	3.5	53.8036	17.04	.17	0.000	.5	185861.000	1.5
53.2740	6.01	-1.19	43053.600	2.5	230762.600	2.5	53.8075	6.02	-1.51	52367.000	0.0	238214.698	0.0
53.2761	6.01	-2.15	43053.600	2.5	230755.100	1.5	53.8079	26.02	-3.13	20481.900	4.0	206328.220	3.0
53.3156	28.03	-1.32	0.000	4.5	187562.390	3.5	53.8103	17.02	.52	0.000	1.5	185838.000	1.5
53.3208	19.03	-3.76	38546.000	0.0	226090.000	1.0	53.8118	17.03	.04	1341.000	2.0	187174.000	2.0
53.3226	14.02	-3.97	52724.690	0.0	240262.280	1.0	53.8150	6.02	-1.64	52390.000	0.0	238211.797	0.0
53.3511	7.01	-.55	0.000	0.0	187437.560	1.0	53.8181	26.02	-3.47	21462.200	4.0	207273.230	5.0
53.3516	30.02	-2.57	78096.300	3.0	265532.200	4.0	53.8196	26.02	-4.34	21462.200	4.0	207268.200	4.0
53.3530	14.02	-3.62	52853.280	1.0	240284.280	2.0	53.8211	26.02	-5.51	21462.200	4.0	207263.000	3.0
53.3581	7.01	-.21	48.700	1.0	187461.560	2.0	53.8240	18.02	-2.08	1112.400	1.0	186903.050	2.0
53.3592	14.02	-4.09	52853.280	1.0	240262.280	1.0	53.8264	8.01	.38	26810.700	2.5	212593.200	1.5
53.3604	18.02	-1.03	1112.400	1.0	188517.320	1.0	53.8273	26.02	-3.39	20481.900	4.0	206261.330	4.0
53.3613	15.04	-1.84	272961.100	.5	460363.000	1.5	53.8290	25.03	-7.02	885.800	4.0	186659.400	4.0
53.3613	15.04	-2.14	272961.100	.5	460363.000	.5	53.8312	6.02	-.81	52447.000	0.0	238212.876	0.0
53.3650	30.02	-3.63	78096.300	3.0	265485.100	3.0	53.8315	17.01	-.77	0.000	2.0	185765.000	2.0
53.3650	7.01	-.75	48.700	1.0	187437.560	1.0	53.8321	8.01	-.58	26830.500	1.5	212593.200	1.5
53.3729	7.01	.03	130.800	2.0	187491.900	3.0	53.8407	6.01	-2.80	0.000	.5	185732.930	.5
53.3815	7.01	-.83	130.800	2.0	187461.560	2.0	53.8507	26.02	-3.57	20481.900	4.0	206180.410	3.0
53.3884	7.01	-2.07	130.800	2.0	187437.560	1.0	53.8523	28.03	-1.64	2618.800	1.5	188311.940	2.5
53.3915	25.03	-2.82	25670.800	4.0	212966.500	5.0	53.8591	6.01	-2.50	63.420	1.5	185732.930	.5
53.4117	25.03	-2.82	25440.400	3.0	212665.300	4.0	53.8599	17.03	-1.09	1341.000	2.0	187008.000	1.0
53.4153	13.03	-1.82	687456.800	1.0	874669.000	1.0	53.8624	13.03	-1.61	685732.800	2.0	871391.000	1.0
53.4189	14.02	-3.55	53115.010	2.0	240314.630	3.0	53.8680	17.04	.70	87381.000	2.5	273020.000	3.5
53.4270	18.02	-3.62	0.000	2.0	187171.120	1.0	53.8687	26.02	-4.32	20688.400	1.0	206324.890	2.0
53.4276	14.02	-4.03	53115.010	2.0	240284.280	2.0	53.8772	26.02	-2.88	20688.400	1.0	206295.810	1.0
53.4344	9.01	-3.51	44918.000	0.0	232063.340	1.0	53.8790	18.02	-1.26	1570.200	0.0	187171.120	1.0
53.4396	25.03	-1.95	552.200	3.0	187679.500	4.0	53.8800	26.02	-5.11	19404.800	2.0	205002.470	3.0
53.4406	28.03	-1.34	1188.400	3.5	188311.940	2.5	53.8885	26.02	-4.11	21699.900	3.0	207268.200	4.0
53.4506	25.03	-.94	25877.700	5.0	212966.500	5.0	53.8900	26.02	-4.66	21699.900	3.0	207263.000	3.0
53.4530	30.02	-3.68	79273.600	2.0	266353.700	2.0	53.8918	26.02	-5.69	21699.900	3.0	207257.000	2.0
53.4630	15.04	-2.11	204197.100	1.5	391242.400	1.5	53.8953	26.02	-2.23	20688.400	1.0	206233.310	2.0
53.4637	7.01	-2.98	48.700	1.0	187091.370	2.0	53.8972	26.02	-5.12	19404.800	2.0	204943.260	2.0
53.4662	15.04	-1.16	204208.300	2.5	391242.400	1.5	53.8973	17.04	.05	87381.000	2.5	272919.000	2.5
53.4736	17.03	.01	0.000	0.0	187008.000	1.0	53.9021	28.03	-1.51	2040.900	2.5	187562.390	3.5
53.4775	25.03	-1.14	25670.800	4.0	212665.300	4.0	53.9073	30.02	-2.90	80850.200	1.0	266353.700	2.0
53.4786	25.03	-3.46	22324.700	2.0	209315.500	3.0	53.9077	26.02	-6.81	19404.800	2.0	204907.130	1.0
53.4872	7.01	-3.79	130.800	2.0	187091.370	2.0	53.9086	8.01	-.67	0.000	1.5	185499.200	2.5
53.4877	25.03	-1.21	25440.400	3.0	212399.300	3.0	53.9201	18.01	-3.11	1431.410	1.5	186890.950	2.5
53.4911	18.02	-1.08	1570.200	0.0	188517.320	1.0	53.9357	26.02	-5.01	21857.200	2.0	207263.000	3.0
53.4944	25.03	-4.58	22324.700	2.0	209260.200	2.0	53.9375	26.02	-5.39	21857.200	2.0	207257.000	2.0
53.4944	8.02	-5.03	113.900	1.0	187049.400	2.0	53.9388	26.02	-6.39	21857.200	2.0	207252.500	1.0
53.4978	26.02	-5.92	19404.800	2.0	206328.220	3.0	53.9444	17.04	-.90	87381.000	2.5	272757.000	1.5
53.4988	26.02	-5.22	19404.800	2.0	206324.890	2.0	53.9458	26.02	-6.79	20300.800	5.0	205672.010	4.0
53.5025	17.03	-.73	32547.000	0.0	219454.000	1.0	53.9547	8.01	-.84	0.000	1.5	185340.680	1.5
53.5032	15.04	-1.41	204197.100	1.5	391101.700	.5	53.9608	28.03	-.47	1188.400	3.5	186508.070	2.5
53.5037	18.02	-2.20	0.000	2.0	186903.050	2.0	53.9742	28.03	-1.59	1188.400	3.5	186461.990	4.5
53.5071	26.02	-4.44	19404.800	2.0	206295.810	1.0	53.9747	10.03	-.84	299351.000	.5	484623.000	1.5
53.5234	19.03	-2.12	687834.700	2.0	874669.000	1.0	53.9810	26.02	-4.62	20481.900	4.0	205732.370	3.0
53.5250	26.02	-3.66	19404.800	2.0	206233.310	2.0	53.9854	8.01	-1.14	0.000	1.5	185235.360	.5
53.5350	25.03	-1.26	885.800	4.0	187679.500	4.0	53.9930	17.01	-1.28	696.100	1.0	183905.400	1.0
53.5357	26.02	-5.24	20481.900	4.0	207273.230	5.0	53.9986	26.02	-3.95	20481.900	4.0	205672.010	4.0
53.5367	25.03	-1.41	25877.700	5.0	212665.300	4.0	54.0105	25.03	-1.57	286.800	2.0	185435.900	3.0
53.5371	26.02	-6.11	20481.900	4.0	207268.200	4.0	54.0120	26.02	-4.79	20051.100	6.0	205195.150	5.0
53.5386	26.02	-7.28	20481.900	4.0	207263.000	3.0	54.0286	26.02	-2.39	21208.500	0.0	206295.810	1.0
53.5402	26.02	-1.95	19404.800	2.0	206180.410	3.0	54.0339	10.03	-4.70	524391.000	.5	709460.000	1.5
53.5406	28.03	-1.53	2040.900	2.5	188815.210	1.5	54.0339	17.01	-1.35	696.100	1.0	185765.000	2.0
53.5455	17.04	.02	86000.000	.5	272757.000	1.5	54.0397	26.02	-3.70	20688.400	1.0	205737.510	2.0
53.5497	8.02	-4.57	306.900	2.0	187049.400	2.0	54.0427	18.01	-3.34	1431.410	1.5	186470.280	1.5
53.5537	25.03	-1.59	25670.800	4.0	212399.300	3.0	54.0524	26.02	-3.78	20688.400	1.0	205694.090	1.0
53.5569	25.03	-1.95	286.800	2.0	187004.000	3.0	54.0743	26.02	-4.89	34812.400	0.0	219743.040	1.0
53.5588	18.02	-4.46	1112.400	1.0	187823.050	2.0	54.0806	18.01	-3.47	1431.410	1.5	186340.480	1.5
53.5667	17.03	.39	491.000	1.0	187174.000	2.0	54.0807	17.01	-1.27	996.400	0.0	185905.400	1.0
53.5741	18.02	-1.69	0.000	2.0	186657.200	3.0	54.0809	28.03	-.64	2040.900	2.5	186949.220	1.5
53.5917	17.04	.02	86000.000	.5	272596.000	.5	54.0849	26.02	-6.40	20300.800	5.0	205195.150	5.0
53.5948	25.03	-2.09	22862.300	3.0	209447.500	4.0	54.0881	25.03	-.75	552.200	3.0	185435.900	3.0
53.5996	26.02	-3.94	20688.400	1.0	207257.000	2.0	54.0932	26.02	-3.06	21462.200	4.0	206328.220	3.0
53.6009	26.02	-4.24	20688.400	1.0	207252.500	1.0	54.1053	9.03	-.96	469644.200	2.0	654469.000	3.0
53.6123	25.03	-2.21	22791.000	2.0	209315.500	3.0	54.1062	12.03	-3.19	612240.300	1.5	797062.000	.5
53.6144	17.03	-.04	491.000	1.0	187008.000	1.0	54.1119	25.03	-1.26	99.000	1.0	184901.200	2.0
53.6226	25.03	-1.39	22959.100	4.0	209447.500	4.0	54.1128	26.02	-2.05	21462.200	4.0	206261.330	4.0
53.6278	18.01	-4.37	0.000	.5	186470.280	1.5	54.1128	10.03	-.64	0.000	1.5	184799.000	.5
53.6282	25.03	-1.69	22791.000	2.0	209260.200	2.0	54.1150	26.02	-4.53	20300.800	5.0	205092.530	4.0
53.6300	7.01	-1.97	48.700	1.0	186511.580	2.0	54.1172	10.03	-4.98</				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
54.2102	28.03	-1.08	2040.900	2.5	186508.070	2.5	54.7153	6.01	-1.68	43053.600	2.5	225817.800	2.5
54.2102	25.03	-1.78	99.000	1.0	184566.100	1.0	54.7165	18.01	-3.79	1431.410	1.5	184191.710	.5
54.2166	26.02	-2.37	21857.200	2.0	206295.810	1.0	54.7206	6.01	-2.57	43025.300	1.5	225771.800	1.5
54.2228	13.03	-1.81	690244.900	0.0	874669.000	1.0	54.7211	6.01	-2.77	43003.300	.5	225748.000	.5
54.2232	17.04	-2.24	86000.000	.5	270423.000	1.5	54.7232	13.03	-2.92	688653.000	1.0	871391.000	1.0
54.2296	17.04	.42	1492.000	1.5	185893.000	2.5	54.7277	6.01	-2.07	43025.300	1.5	225748.000	.5
54.2320	28.03	-1.46	2040.900	2.5	186433.850	1.5	54.7291	6.01	-2.04	43053.600	2.5	225771.800	1.5
54.2370	26.02	-3.16	21857.200	2.0	206233.310	2.0	54.7324	19.04	-3.85	24012.700	1.5	206720.000	1.5
54.2391	17.04	-1.53	1492.000	1.5	185861.000	1.5	54.7415	26.02	-3.11	30886.400	4.0	213563.080	5.0
54.2449	25.03	-1.48	552.200	3.0	184901.200	2.0	54.7460	18.01	-2.27	1431.410	1.5	184093.060	.5
54.2466	26.02	-1.44	436.200	3.0	184779.500	4.0	54.7543	19.04	-3.61	40077.000	1.5	222711.000	1.5
54.2469	26.02	-1.99	436.200	3.0	184778.500	3.0	54.7630	17.04	.16	87381.000	2.5	269986.000	2.5
54.2472	26.02	-2.01	436.200	3.0	184777.600	2.0	54.7782	18.01	-3.38	1431.410	1.5	183985.940	1.5
54.2504	28.03	-1.21	2618.800	1.5	186949.220	1.5	54.7818	7.01	-1.19	15316.200	2.0	197858.690	1.0
54.2525	26.02	-4.17	21857.200	2.0	206180.410	3.0	54.7954	24.03	-5.50	956.000	4.5	183453.000	5.5
54.2566	28.03	-1.18	1188.400	3.5	185497.660	2.5	54.7996	18.01	-1.73	1431.410	1.5	183914.560	.5
54.2566	15.04	-1.69	88651.700	.5	272961.100	.5	54.8034	19.04	-5.14	24249.500	2.5	206720.000	1.5
54.2573	24.03	-5.99	561.000	3.5	184868.000	3.5	54.8348	18.01	-4.32	1431.410	1.5	183797.360	2.5
54.2655	25.03	-1.90	286.800	2.0	184566.100	1.0	54.8449	26.02	-5.16	24940.900	4.0	207273.230	5.0
54.2681	26.02	-3.20	21462.200	4.0	205732.370	3.0	54.8464	26.02	-6.03	24940.900	4.0	207268.200	4.0
54.2727	26.02	-7.29	20688.400	1.0	204943.260	2.0	54.8480	26.02	-7.21	24940.900	4.0	207263.000	3.0
54.2833	26.02	-5.76	20688.400	1.0	204907.130	1.0	54.8576	19.04	-4.98	40077.000	1.5	222367.000	2.5
54.2859	26.02	-5.14	21462.200	4.0	205672.010	4.0	54.8781	18.01	-2.26	0.000	.5	182222.030	1.5
54.2866	8.03	-1.10	390161.200	.5	574368.700	1.5	54.9025	7.01	-2.25	32688.800	0.0	214829.790	1.0
54.2868	17.04	-1.24	86538.000	1.5	270745.000	.5	54.9071	26.02	-5.92	25142.400	3.0	207268.200	4.0
54.2913	18.01	-3.41	0.000	.5	184191.710	.5	54.9087	26.02	-6.47	25142.400	3.0	207263.000	3.0
54.2983	16.02	-1.59	27159.100	0.0	211326.800	1.0	54.9096	28.03	-1.88	0.000	4.5	182117.480	3.5
54.3122	8.03	-1.84	390248.000	1.5	574368.700	2.5	54.9105	26.02	-7.49	25142.400	3.0	207257.000	2.0
54.3122	8.03	-1.80	390248.000	1.5	574368.700	1.5	54.9221	17.02	-3.38	0.000	1.5	182076.000	1.5
54.3204	18.01	-1.60	0.000	.5	184093.060	.5	54.9230	17.03	-1.29	0.000	0.0	182073.000	1.0
54.3209	28.03	-1.02	0.000	4.5	184091.320	3.5	54.9285	20.02	-1.73	203851.950	1.0	385906.900	2.0
54.3258	6.01	-1.36	0.000	.5	184074.590	1.5	54.9298	28.03	-3.13	2040.900	2.5	184091.320	3.5
54.3361	26.02	-1.63	738.900	2.0	184778.500	3.0	54.9340	28.03	-2.05	0.000	4.5	182036.640	4.5
54.3364	26.02	-1.01	738.900	2.0	184777.600	2.0	54.9496	30.02	-3.68	83500.300	2.0	265485.100	3.0
54.3365	26.02	-2.01	738.900	2.0	184777.300	1.0	54.9681	28.03	-4.55	0.000	4.5	181923.610	5.5
54.3367	26.02	-3.66	21699.900	3.0	205737.510	2.0	54.9786	26.02	-2.83	19404.800	2.0	201293.750	2.0
54.3382	26.02	-3.86	21699.900	3.0	205737.320	3.0	54.9964	24.03	-6.00	561.000	3.5	182391.000	4.5
54.3443	6.01	-1.10	63.420	1.5	184075.280	2.5	55.0028	17.03	-1.42	491.000	1.0	182300.000	0.0
54.3445	6.01	-2.06	63.420	1.5	184074.590	1.5	55.0136	26.02	-3.66	19404.800	2.0	201178.010	1.0
54.3457	25.03	-3.52	25440.400	3.0	209447.500	4.0	55.0142	19.04	-1.24	24012.700	1.5	205784.000	.5
54.3520	18.01	-6.93	0.000	.5	183985.940	1.5	55.0171	26.02	-5.75	19404.800	2.0	201166.350	3.0
54.3561	26.02	-8.07	21699.900	3.0	205672.010	4.0	55.0178	26.02	-3.02	19404.800	2.0	201164.210	2.0
54.3590	17.04	-4.34	696.100	1.0	184658.400	2.0	55.0301	26.02	-5.98	20481.900	4.0	202200.510	3.0
54.3591	9.03	-4.52	469644.200	2.0	653606.000	3.0	55.0350	26.02	-1.09	24558.800	5.0	206261.330	4.0
54.3601	26.02	-8.38	30088.840	3.0	214047.380	4.0	55.0481	18.01	-1.14	1431.410	1.5	183090.810	1.5
54.3657	26.02	-5.29	35803.700	2.0	219743.040	1.0	55.0521	26.02	-3.26	20688.400	1.0	202334.390	1.0
54.3673	13.03	-2.25	687456.800	1.0	871391.000	1.0	55.0678	26.02	-2.49	20688.400	1.0	202282.650	2.0
54.3731	18.01	-1.48	0.000	.5	183914.560	.5	55.0715	17.03	-1.72	491.000	1.0	182073.000	1.0
54.3738	24.03	-4.44	956.000	4.5	184868.000	3.5	55.0755	7.01	-4.68	32688.800	0.0	214257.690	1.0
54.3806	28.03	-2.30	2618.800	1.5	186508.070	2.5	55.0904	18.01	-3.13	1431.410	1.5	182951.150	.5
54.3818	17.04	-1.74	86538.000	1.5	270423.000	1.5	55.1162	24.03	-7.02	956.000	4.5	182391.000	4.5
54.3832	26.02	-4.25	21857.200	2.0	205737.510	2.0	55.1171	16.03	-1.79	0.000	.5	181432.000	.5
54.3847	25.03	-1.59	25440.400	3.0	209315.500	3.0	55.1282	7.01	-6.12	15316.200	2.0	196711.540	2.0
54.3847	26.02	-5.12	21857.200	2.0	205732.370	3.0	55.1306	26.02	-1.20	24940.900	4.0	206328.220	3.0
54.3892	10.03	-1.17	0.000	1.5	183860.000	2.5	55.1510	26.02	-2.55	24940.900	4.0	206261.330	4.0
54.3916	26.02	-3.16	35803.700	2.0	219655.550	2.0	55.1633	25.03	-2.50	31385.200	3.0	212665.300	4.0
54.3936	26.02	-1.86	932.400	1.0	184777.600	2.0	55.1645	7.01	-2.88	15316.200	2.0	196592.070	1.0
54.3937	26.02	-1.17	932.400	1.0	184777.300	1.0	55.1681	6.01	-2.56	0.000	.5	181264.240	.5
54.3948	28.03	-2.34	2040.900	2.5	185882.170	3.5	55.1756	26.02	-3.63	24940.900	4.0	206180.410	3.0
54.3960	26.02	-4.37	21857.200	2.0	205694.090	1.0	55.1874	6.01	-2.26	63.420	1.5	181264.240	.5
54.4011	25.03	-1.65	25440.400	3.0	209260.200	2.0	55.1920	26.02	-2.48	25142.400	3.0	206328.220	3.0
54.4025	28.03	-2.03	2618.800	1.5	186433.850	1.5	55.1930	26.02	-1.31	25142.400	3.0	206324.890	2.0
54.4139	25.03	-1.57	25670.800	4.0	209447.500	4.0	55.2023	17.03	-1.17	491.000	1.0	181643.000	2.0
54.4181	26.02	-2.65	35803.700	2.0	219566.080	3.0	55.2041	13.03	-2.70	690244.900	0.0	871391.000	1.0
54.4218	26.02	-1.17	1027.300	0.0	184777.300	1.0	55.2102	26.02	-3.17	21208.500	0.0	202334.390	1.0
54.4268	26.02	-6.06	21462.200	4.0	205195.150	5.0	55.2123	26.02	-4.41	25142.400	3.0	206261.330	4.0
54.4370	26.02	-5.44	21208.500	0.0	204907.130	1.0	55.2141	26.02	-3.96	24558.800	5.0	205672.010	4.0
54.4502	26.02	-2.13	30356.200	6.0	214010.320	5.0	55.2181	26.02	-7.25	19404.800	2.0	200504.990	3.0
54.4530	25.03	-1.57	25670.800	4.0	209315.500	3.0	55.2209	26.02	-3.34	25142.400	3.0	206233.310	2.0
54.4572	26.02	-5.41	21462.200	4.0	205092.530	4.0	55.2243	18.02	-1.90	33267.000	0.0	214346.700	1.0
54.4608	26.02	-5.71	30356.200	6.0	213974.220	6.0	55.2290	20.02	-2.20	204842.640	2.0	385906.900	2.0
54.4752	25.03	-1.47	25877.700	5.0	209447.500	4.0	55.2370	26.02	-4.74	25142.400	3.0	206180.410	3.0
54.4792	13.03	-1.35	687834.700	2.0	871391.000	1.0	55.2411	20.02	-1.05	204842.640	2.0	385867.200	3.0
54.4840	26.02	-3.31	21462.200	4.0	205002.470	3.0	55.2443	25.03	-4.74	31385.200	3.0	212399.300	3.0
54.4915	15.04	-1.38	89446.300	1.5	272961.100	.5	55.2454	28.03	-2.00	1188.400	3.5	182198.850	2.5
54.5088	28.03	-1.81	2040.900	2.5	185497.660	2.5	55.2697	17.02	-1.33	18053.000	1.5	198983.900	1.5
54.5114	17.04	-1.21	86538.000	1.5	269986.000	2.5	55.2703	28.03	-2.95	1188.400	3.5	182117.480	3.5
54.5278	26.02	-5.12	21699.900	3.0	205092.530	4.0	55.2713	25.03	-2.71	31473.500	2.0	212399.300	3.0
54.5546	26.02	-4.34	21699.900	3.0	205002.470	3.0	55.2729	9.03	-2.65	451819.600	1.0	632740.000	1.0
54.5722	26.02	-3.12	21699.900	3.0									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
55.4625	17.03	.06	1341.000	2.0	181643.000	2.0	56.0317	13.02	-2.04	0.000	.5	178470.320	1.5
55.4772	26.02	-5.33	24940.900	4.0	205195.150	5.0	56.0331	9.04	-.92	565544.000	1.5	744010.000	1.5
55.4867	26.02	-3.16	20300.800	5.0	200524.120	5.0	56.0374	28.02	-2.70	0.000	4.0	178452.400	3.0
55.4897	26.02	-.98	20300.800	5.0	200514.460	4.0	56.0377	10.02	-3.59	25840.800	2.0	204292.000	2.0
55.4899	9.03	-4.25	452517.100	3.0	632730.000	3.0	56.0433	13.02	-2.34	0.000	.5	178433.430	.5
55.4904	28.03	-2.23	2040.900	2.5	182252.330	1.5	56.0437	6.01	-.84	63.420	1.5	178495.710	2.5
55.4968	26.02	-4.19	19404.800	2.0	199595.300	3.0	56.0439	30.02	-2.32	79273.600	2.0	257705.100	3.0
55.5022	26.02	-5.37	19404.800	2.0	199577.710	2.0	56.0439	6.01	-1.80	63.420	1.5	178495.110	1.5
55.5054	18.01	-3.68	1431.410	1.5	181594.050	2.5	56.0485	26.02	-5.41	20300.800	5.0	198717.600	4.0
55.5057	8.01	-1.54	26810.700	2.5	206972.300	1.5	56.0633	17.02	-4.26	0.000	1.5	178369.700	.5
55.5060	8.01	-.38	26810.700	2.5	206971.300	2.5	56.0862	18.02	-.83	33267.000	0.0	211563.830	1.0
55.5068	28.03	-5.30	2040.900	2.5	182198.850	2.5	56.0878	26.02	-6.08	20481.900	4.0	198773.950	5.0
55.5088	26.02	-5.35	24940.900	4.0	205092.530	4.0	56.0898	26.02	-5.76	20051.100	6.0	198336.560	5.0
55.5118	8.01	-.57	26830.500	1.5	206972.300	1.5	56.0907	26.02	-4.32	20051.100	6.0	198333.760	6.0
55.5121	8.01	-1.53	26830.500	1.5	206971.300	2.5	56.0980	14.03	-2.75	71748.640	1.5	250008.140	1.5
55.5319	28.03	-3.47	2040.900	2.5	182117.480	3.5	56.0980	14.03	-1.80	71748.640	1.5	250008.020	2.5
55.5366	26.02	-4.73	24940.900	4.0	205002.470	3.0	56.1046	26.02	-2.94	21462.200	4.0	199700.830	4.0
55.5425	26.02	-3.38	20481.900	4.0	200524.120	5.0	56.1055	26.02	-5.37	20481.900	4.0	198717.600	4.0
55.5455	26.02	-2.86	20481.900	4.0	200514.460	4.0	56.1169	9.03	-1.27	451819.600	1.0	630019.000	2.0
55.5484	26.02	-1.07	20481.900	4.0	200504.990	3.0	56.1172	26.02	-3.58	21462.200	4.0	199660.840	5.0
55.5650	26.02	-3.94	21208.500	0.0	201178.010	1.0	56.1180	11.03	-4.37	66492.000	0.0	244688.000	1.0
55.5710	26.02	-4.33	25142.400	3.0	205092.530	4.0	56.1240	26.02	-4.85	20481.900	4.0	198658.800	3.0
55.5766	18.01	.57	0.000	.5	179931.770	1.5	56.1291	18.01	.81	1431.410	1.5	179592.130	2.5
55.5793	26.02	-6.59	19404.800	2.0	199327.950	1.0	56.1352	26.02	-1.38	21462.200	4.0	199603.610	4.0
55.5879	26.02	-5.94	19404.800	2.0	199300.150	2.0	56.1378	26.02	-2.24	21462.200	4.0	199595.300	3.0
55.5966	17.01	-3.25	0.000	2.0	179867.000	1.0	56.1421	26.02	-9.75	21208.500	0.0	199327.950	1.0
55.5988	26.02	-5.03	25142.400	3.0	205002.470	3.0	56.1530	17.02	.83	18053.000	1.5	196137.900	2.5
55.5995	26.02	-8.08	19404.800	2.0	199262.440	3.0	56.1600	7.01	-4.66	32688.800	0.0	210751.430	1.0
55.6171	26.02	-4.54	25142.400	3.0	204943.260	2.0	56.1601	25.03	-.95	31385.200	3.0	209447.500	4.0
55.6232	17.02	.20	0.000	1.5	179781.000	.5	56.1678	26.02	-5.57	20300.800	5.0	198338.620	4.0
55.6343	26.02	-3.74	21462.200	4.0	201207.290	4.0	56.1680	17.02	.99	18118.600	2.5	196155.800	3.5
55.6401	9.03	-3.08	451819.600	1.0	631546.000	0.0	56.1685	26.02	-4.81	20300.800	5.0	198336.580	5.0
55.6401	9.03	-2.85	451819.600	1.0	631546.000	1.0	56.1694	26.02	-6.22	20300.800	5.0	198333.760	6.0
55.6470	26.02	-3.96	21462.200	4.0	201166.350	3.0	56.1712	25.03	-2.96	552.200	3.0	178579.500	4.0
55.6598	17.02	-3.31	0.000	1.5	179663.000	1.5	56.1737	17.02	-.30	18118.600	2.5	196137.900	2.5
55.6603	28.03	-2.56	2618.800	1.5	182280.040	.5	56.1767	20.02	-2.05	204842.640	2.0	382852.300	2.0
55.6689	28.03	-3.85	2618.800	1.5	182252.330	1.5	56.1771	25.03	-3.72	22324.700	2.0	200333.200	3.0
55.6763	26.02	-3.03	20051.100	6.0	199660.840	5.0	56.1795	26.02	-3.47	21699.900	3.0	199700.830	4.0
55.6773	9.03	-3.70	451819.600	1.0	631426.000	2.0	56.1981	20.02	-.92	204842.640	2.0	382784.700	3.0
55.6812	26.02	-4.72	21699.900	3.0	201293.750	2.0	56.2018	25.03	-2.23	31385.200	3.0	209315.500	3.0
55.6843	26.02	-1.15	20051.100	6.0	199634.920	6.0	56.2102	26.02	-2.50	21699.900	3.0	199603.610	4.0
55.6855	28.03	-4.19	2618.800	1.5	182198.850	2.5	56.2128	26.02	-1.53	21699.900	3.0	199595.300	3.0
55.7080	26.02	-5.31	21699.900	3.0	201207.290	4.0	56.2184	26.02	-2.27	21699.900	3.0	199577.710	2.0
55.7118	17.02	.68	0.000	1.5	179495.200	2.5	56.2193	25.03	-4.13	31385.200	3.0	209260.200	4.0
55.7207	26.02	-4.17	21699.900	3.0	201166.350	3.0	56.2227	10.04	-5.16	30293.000	2.0	208157.000	1.0
55.7212	9.03	-2.31	452081.100	2.0	631546.000	1.0	56.2227	10.04	-4.44	30293.000	2.0	208157.000	2.0
55.7214	26.02	-5.11	21699.900	3.0	201164.210	2.0	56.2250	26.02	-4.68	20481.900	4.0	198338.620	4.0
55.7300	26.02	-5.62	21857.200	2.0	201293.750	2.0	56.2255	26.02	-5.39	20481.900	4.0	198337.060	3.0
55.7414	26.02	-2.72	20300.800	5.0	199700.830	4.0	56.2257	26.02	-7.06	20481.900	4.0	198336.580	5.0
55.7476	16.02	-5.05	27159.100	0.0	206538.870	1.0	56.2294	17.01	-4.51	696.100	1.0	178539.100	2.0
55.7538	26.02	-1.23	20300.800	5.0	199660.840	5.0	56.2297	25.03	-1.11	31473.500	2.0	209315.500	3.0
55.7585	9.03	-1.99	452081.100	2.0	631426.000	2.0	56.2298	6.01	-1.88	43003.300	.5	220845.070	.5
55.7618	26.02	-3.02	20300.800	5.0	199634.920	6.0	56.2325	18.03	-3.62	0.000	1.5	177833.000	.5
55.7660	26.02	-6.20	21857.200	2.0	201178.010	1.0	56.2338	6.01	-1.18	43003.300	.5	220832.150	1.5
55.7696	26.02	-6.47	21857.200	2.0	201166.350	3.0	56.2367	6.01	-1.18	43025.300	1.5	220845.070	.5
55.7703	26.02	-5.20	21857.200	2.0	201164.210	2.0	56.2376	17.01	-.53	0.000	2.0	177816.900	2.0
55.7716	26.02	-3.00	20300.800	5.0	199603.610	4.0	56.2408	6.01	-1.68	43025.300	1.5	220832.150	1.5
55.7977	26.02	-1.33	20481.900	4.0	199700.830	4.0	56.2429	26.02	-5.92	21462.200	4.0	199262.440	3.0
55.8101	26.02	-2.98	20481.900	4.0	199660.840	5.0	56.2467	25.03	-3.53	286.800	2.0	178075.100	3.0
55.8126	17.01	-3.92	696.100	1.0	179867.000	1.0	56.2472	25.03	-2.10	31473.500	2.0	209260.200	2.0
55.8280	26.02	-3.04	20481.900	4.0	199603.610	4.0	56.2473	6.01	-1.15	43025.300	1.5	220811.690	2.5
55.8306	26.02	-2.93	20481.900	4.0	199595.300	3.0	56.2498	6.01	-1.15	43053.600	2.5	220832.150	1.5
55.8383	26.02	-4.94	20051.100	6.0	199139.760	5.0	56.2562	6.01	-.78	43053.600	2.5	220811.690	2.5
55.8422	17.02	-3.70	0.000	1.5	179076.100	1.5	56.2575	17.01	-1.03	0.000	2.0	177754.200	1.0
55.8466	26.02	-1.59	21462.200	4.0	200524.120	5.0	56.2586	26.02	-3.80	21462.200	4.0	199212.720	4.0
55.8484	18.04	-5.50	16300.000	2.0	195356.000	1.0	56.2626	26.02	-2.52	21857.200	2.0	199595.300	3.0
55.8495	25.03	-.51	21280.700	4.0	200333.200	3.0	56.2659	9.03	-.99	451819.600	1.0	629547.000	2.0
55.8496	26.02	-2.27	21462.200	4.0	200514.460	4.0	56.2681	26.02	-1.62	21857.200	2.0	199577.710	2.0
55.8519	9.03	-2.11	452081.100	2.0	631126.000	3.0	56.2766	25.03	-2.25	885.800	4.0	178579.500	4.0
55.8526	26.02	-3.06	21462.200	4.0	200504.990	3.0	56.2803	24.03	-7.08	244.000	2.5	177926.000	3.5
55.8540	10.02	-4.93	25840.800	2.0	204879.000	1.0	56.2811	25.03	-1.29	31580.700	1.0	209260.200	2.0
55.8600	20.04	.35	18830.000	2.0	197849.000	1.0	56.2817	26.02	-5.62	21462.200	4.0	199139.760	5.0
55.8629	25.03	-1.78	21280.700	4.0	200290.400	4.0	56.2920	26.02	-8.58	20688.400	1.0	198333.560	2.0
55.8658	20.02	-1.59	203851.950	1.0	382852.300	2.0	56.3031	16.05	-.53	451785.000	1.5	629395.000	2.5
55.8871	26.02	-8.17	19404.800	2.0	198337.060	3.0	56.3062	26.02	-7.38	21699.900	3.0	199300.150	2.0
55.8882	26.02	-7.26	19404.800	2.0	198333.560	2.0	56.3104	16.05	-.37	451808.000	2.5	629395.000	3.5
55.8934	26.02	-4.93	20300.800	5.0	199212.720	4.0	56.3104	16.05	-1.68	451808.000	2.5	629395.000	2.5
55.8936	25.03	-4.65	21280.700	4.0	200192.200	5.0	56.3182	26.02	-4.83	21699.900	3.0	199262.440	3.0
55.8944	9.03	-2.06	452517.100	3.0	631426.000	2.0	56.3218	7.01	-4.83	32688.800	0.0	210239.830	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
56.4652	6.01	-1.58	43025.300	1.5	220125.510	.5	56.9990	26.02	-6.66	30886.400	4.0	206328.220	3.0
56.4663	6.01	-1.20	43053.600	2.5	220150.490	3.5	57.0114	26.02	-2.47	30857.800	3.0	206261.330	4.0
56.4679	28.02	-2.64	1360.700	3.0	178452.400	2.0	57.0116	25.03	-1.72	885.800	4.0	176288.600	5.0
56.4679	28.02	-1.53	1360.700	3.0	178452.400	3.0	57.0205	26.02	-2.82	30857.800	3.0	206233.310	2.0
56.4698	6.01	-1.85	43053.600	2.5	220139.410	2.5	57.0207	26.02	-4.88	30886.400	4.0	206261.330	4.0
56.4717	24.03	-5.20	956.000	4.5	178036.000	4.5	57.0216	26.02	-2.36	25142.400	3.0	200514.460	3.0
56.4724	25.03	-4.03	552.200	3.0	177629.800	2.0	57.0247	26.02	-1.58	25142.400	3.0	200504.990	3.0
56.4725	6.01	-1.81	43053.600	2.5	220130.860	1.5	57.0377	26.02	-1.44	30857.800	3.0	206180.410	3.0
56.4786	26.02	-5.69	25142.400	3.0	202200.510	3.0	57.0470	26.02	-4.61	30886.400	4.0	206180.410	3.0
56.4786	17.01	-1.27	696.100	1.0	177754.200	1.0	57.0571	14.02	-4.47	0.000	0.0	175263.100	1.0
56.4876	9.03	-3.77	452517.100	3.0	629547.000	2.0	57.0577	25.03	-2.40	552.200	3.0	175813.400	4.0
56.4913	30.02	-2.91	79273.600	2.0	256291.900	1.0	57.0639	9.03	-1.73	0.000	0.0	175242.000	1.0
56.4915	26.02	-4.97	21699.900	3.0	198717.600	4.0	57.0656	18.04	-2.83	16300.000	2.0	191537.000	1.0
56.4980	17.01	-1.14	696.100	1.0	177693.600	0.0	57.0678	25.03	-1.33	22324.700	2.0	197554.800	2.0
56.5068	24.03	-4.77	956.000	4.5	177926.000	3.5	57.0742	25.03	-3.21	286.800	2.0	175436.000	3.0
56.5103	26.02	-7.74	21699.900	3.0	198658.800	3.0	57.0965	26.02	-4.01	24558.800	5.0	199700.830	4.0
56.5270	17.02	-1.75	18053.000	1.5	194959.500	2.5	57.1014	28.02	-3.58	1360.700	3.0	176487.700	2.0
56.5296	14.02	-2.30	52724.690	0.0	229623.190	1.0	57.1096	26.02	-3.70	24558.800	5.0	199660.840	5.0
56.5366	26.02	-6.90	21462.200	4.0	198338.620	4.0	57.1120	25.03	-3.51	22791.000	2.0	197885.500	3.0
56.5371	26.02	-5.85	21462.200	4.0	198337.060	3.0	57.1180	26.02	-1.95	24558.800	5.0	199634.920	6.0
56.5373	26.02	-5.84	21462.200	4.0	198336.580	5.0	57.1262	28.03	-3.35	1188.400	3.5	176239.320	2.5
56.5480	17.02	-4.66	18118.600	2.5	194959.500	2.5	57.1282	26.02	-1.62	24558.800	5.0	199603.610	4.0
56.5570	8.02	-4.95	20274.000	2.0	197086.700	1.0	57.1302	9.03	-1.89	225.200	1.0	175264.100	0.0
56.5606	26.02	-6.43	21857.200	2.0	198658.800	3.0	57.1353	25.03	-1.82	22862.300	3.0	197885.500	3.0
56.5707	14.02	-1.82	52853.280	1.0	229623.190	1.0	57.1353	25.03	-1.84	21474.800	5.0	196497.900	6.0
56.5743	26.02	-3.86	42896.900	3.0	219655.550	2.0	57.1359	26.02	-3.55	30716.200	2.0	205737.510	2.0
56.5746	17.01	-1.13	996.400	0.0	177754.200	1.0	57.1367	19.03	-4.32	16384.000	2.0	191403.000	1.0
56.5844	17.01	-1.88	696.100	1.0	177423.100	1.0	57.1374	9.03	-1.25	225.200	1.0	175242.000	1.0
56.6030	26.02	-3.37	42896.900	3.0	219566.080	3.0	57.1376	26.02	-3.92	30716.200	2.0	205732.370	3.0
56.6096	26.02	-4.40	24558.800	5.0	201207.290	4.0	57.1390	26.02	-4.20	30725.800	1.0	205737.510	2.0
56.6127	26.02	-6.35	21699.900	3.0	198338.620	4.0	57.1390	9.03	-3.32	225.200	1.0	175237.000	2.0
56.6132	26.02	-5.75	21699.900	3.0	198337.060	3.0	57.1417	26.02	-7.54	30088.840	3.0	205092.530	4.0
56.6144	26.02	-5.77	21699.900	3.0	198333.560	2.0	57.1500	24.03	-3.74	0.000	1.5	174978.000	2.5
56.6236	25.03	-2.65	21280.700	4.0	197885.500	3.0	57.1501	26.02	-5.05	30716.200	2.0	205694.090	1.0
56.6331	26.02	-5.88	42896.900	3.0	219471.970	4.0	57.1532	26.02	-4.36	30725.800	1.0	205694.090	1.0
56.6421	10.03	-4.87	524676.000	1.5	701223.000	1.5	57.1546	14.02	-3.37	82884.410	1.0	257848.500	2.0
56.6422	26.02	-4.72	30716.200	2.0	207263.000	3.0	57.1605	10.03	-4.88	524676.000	1.5	699622.000	1.5
56.6441	26.02	-5.10	30716.200	2.0	207257.000	2.0	57.1665	25.03	-2.61	885.800	4.0	175813.400	4.0
56.6456	26.02	-6.10	30716.200	2.0	207252.500	1.0	57.1669	25.03	-1.79	22959.100	4.0	197885.500	3.0
56.6472	26.02	-5.37	30725.800	1.0	207257.000	2.0	57.1683	24.03	-3.85	244.000	2.5	175166.000	3.5
56.6487	26.02	-5.67	30725.800	1.0	207252.500	1.0	57.1779	25.03	-1.52	25440.400	3.0	200333.200	3.0
56.6546	14.02	-1.60	53115.010	2.0	229623.190	1.0	57.1808	25.03	-3.24	552.200	3.0	175436.000	3.0
56.6613	14.02	-1.70	0.000	0.0	176487.700	1.0	57.1822	26.02	-4.79	30857.800	3.0	205737.510	2.0
56.6630	10.03	-4.15	532978.000	1.5	709460.000	2.5	57.1827	30.02	-3.34	79273.600	2.0	254151.600	2.0
56.6637	26.02	-7.46	21857.200	2.0	198337.060	3.0	57.1838	26.02	-3.10	30857.800	3.0	205732.370	3.0
56.6648	26.02	-5.52	21857.200	2.0	198333.560	2.0	57.1910	17.01	-1.62	0.000	2.0	174852.600	3.0
56.6761	25.03	-1.65	20654.200	0.0	197095.400	1.0	57.1919	25.03	-1.66	25440.400	3.0	200290.400	4.0
56.6808	17.01	-1.38	996.400	0.0	177423.100	1.0	57.1932	26.02	-6.05	30886.400	4.0	205732.370	3.0
56.6860	26.02	-4.41	30857.800	3.0	207268.200	4.0	57.1955	26.02	-7.80	30356.200	6.0	205195.150	5.0
56.6877	26.02	-4.96	30857.800	3.0	207263.000	3.0	57.2014	18.01	-1.16	0.000	5.0	174820.930	5.0
56.6896	26.02	-5.99	30857.800	3.0	207257.000	2.0	57.2015	17.01	-1.30	0.000	2.0	174820.930	5.0
56.6936	26.02	-5.98	30886.400	4.0	207273.230	5.0	57.2017	19.03	-3.68	16384.000	2.0	191204.000	2.0
56.6952	26.02	-6.84	30886.400	4.0	207268.200	4.0	57.2022	25.03	-1.66	21679.300	6.0	196497.900	6.0
56.6969	26.02	-8.02	30886.400	4.0	207263.000	3.0	57.2033	10.04	-6.06	1112.000	2.0	175927.000	1.0
56.7292	25.03	-1.20	21278.800	1.0	197554.800	2.0	57.2036	26.02	-5.33	30857.800	3.0	205672.010	4.0
56.7323	26.02	-5.43	24940.900	4.0	201207.290	4.0	57.2069	7.01	-1.91	15316.200	2.0	190120.240	1.0
56.7401	14.03	-2.29	160374.410	2.5	336616.550	2.5	57.2105	10.04	-1.44	1112.000	2.0	175905.000	2.0
56.7401	14.03	-1.99	160374.410	2.5	336616.550	3.5	57.2129	26.02	-7.13	30886.400	4.0	205672.010	4.0
56.7405	14.03	-1.15	160375.600	1.5	336616.550	2.5	57.2129	17.01	-2.51	0.000	2.0	174785.700	1.0
56.7410	26.02	-8.92	30088.840	3.0	206328.220	3.0	57.2153	30.02	-1.94	78096.300	3.0	252874.600	3.0
56.7455	26.02	-6.92	24940.900	4.0	201166.350	3.0	57.2178	25.03	-2.54	22324.700	2.0	197095.400	1.0
56.7518	10.03	-4.82	525017.000	2.5	701223.000	1.5	57.2201	25.03	-1.60	22791.000	2.0	197554.800	2.0
56.7592	28.02	-1.63	2269.600	2.0	178452.400	2.0	57.2214	26.02	-5.41	24940.900	4.0	199700.830	4.0
56.7592	28.02	-2.55	2269.600	2.0	178452.400	3.0	57.2298	24.03	-2.55	244.000	2.5	174978.000	2.5
56.7626	26.02	-7.66	30088.840	3.0	206261.330	4.0	57.2338	19.04	-1.19	1112.000	2.0	175834.000	3.0
56.7637	9.02	-1.96	34087.400	2.5	210256.300	1.5	57.2345	26.02	-2.04	24940.900	4.0	199660.840	5.0
56.7684	9.02	-1.20	34087.400	2.5	210241.700	2.5	57.2397	18.02	-1.31	14010.000	2.0	188714.050	3.0
56.7694	26.02	-5.68	25142.400	3.0	201293.750	2.0	57.2431	25.03	-1.94	21280.700	4.0	195974.100	5.0
56.7716	26.02	-8.38	30088.840	3.0	206233.310	2.0	57.2434	25.03	-1.71	22862.300	3.0	197554.800	2.0
56.7752	9.02	-1.01	34123.200	1.5	210256.300	1.5	57.2499	28.03	-3.44	1188.400	3.5	175861.270	3.5
56.7800	9.02	-1.95	34123.200	1.5	210241.700	2.5	57.2532	26.02	-2.38	24940.900	4.0	197095.400	1.0
56.7835	26.02	-3.58	42896.900	3.0	219004.530	4.0	57.2533	25.03	-1.30	25670.800	4.0	200333.200	3.0
56.7972	26.02	-4.88	25142.400	3.0	201207.290	4.0	57.2535	9.03	-1.73	456884.300	1.0	631546.000	0.0
56.8003	30.02	-4.83	78096.300	3.0	254151.600	2.0	57.2535	9.03	-1.34	56884.300	1.0	631546.000	1.0
56.8049	15.02	-1.57	0.000	5.0	176041.000	5.0	57.2559	76.02	-1.81	24940.900	4.0	199595.300	3.0
56.8097	26.02	-4.05	42896.900	3.0	218923.080	3.0	57.2561	26.02	-4.60	24558.800	5.0	199212.720	4.0
56.8105	26.02	-5.81	25142.400	3.0	201166.350	3.0	57.2640	9.03	-1.03	612.200	2.0	175242.000	1.0
56.8111	26.02	-5.83	25142.400	3.0	201166.210	2.0	57.2656	9.03	-1.84	612.200	2.0	175237.000	2.0
56.8294	26.02	-1.30	24558.800	5.0	200524.120	5.0	57.2673	25.03	-1.39				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
57.3747	24.03	-1.42	561.000	3.5	174854.000	3.5
57.3769	26.02	-4.91	30716.200	2.0	205002.470	3.0
57.3816	26.02	-5.44	24940.900	4.0	199212.720	4.0
57.3847	26.02	-6.24	24558.800	5.0	198821.390	6.0
57.3882	17.01	-3.10	11653.500	2.0	185905.400	1.0
57.3938	26.02	-5.96	30857.800	3.0	205092.530	4.0
57.3951	14.02	-2.55	52853.280	1.0	227084.210	2.0
57.3961	14.02	-3.03	52853.280	1.0	227081.190	1.0
57.3964	26.02	-4.14	30716.200	2.0	204943.260	2.0
57.3993	28.02	-5.04	2269.600	2.0	176487.700	2.0
57.3995	26.02	-4.49	30725.800	1.0	204943.260	2.0
57.4003	26.02	-5.89	24558.800	5.0	198773.950	5.0
57.4014	17.01	-4.24	11653.500	2.0	185865.200	3.0
57.4020	24.03	-1.55	956.000	4.5	175166.000	3.5
57.4033	26.02	-6.90	30886.400	4.0	205092.530	4.0
57.4037	30.02	-1.44	83500.300	2.0	257705.100	3.0
57.4057	26.02	-7.46	24940.900	4.0	199139.760	5.0
57.4058	28.03	-3.70	2040.900	2.5	176239.320	2.5
57.4083	26.02	-4.37	30716.200	2.0	204907.130	1.0
57.4114	26.02	-3.95	30725.800	1.0	204907.130	1.0
57.4157	30.02	-2.23	78096.300	3.0	252264.800	4.0
57.4189	26.02	-7.42	24558.800	5.0	198717.600	4.0
57.4192	26.02	-6.77	25142.400	3.0	199300.150	2.0
57.4235	26.02	-4.50	30857.800	3.0	205002.470	3.0
57.4279	6.02	-1.19	102351.000	0.0	276482.389	0.0
57.4302	17.01	-0.95	696.100	1.0	174820.600	2.0
57.4305	28.03	-4.62	2618.800	1.5	176742.300	1.5
57.4316	26.02	-6.05	25142.400	3.0	199262.440	3.0
57.4330	26.02	-6.34	30886.400	4.0	205002.470	3.0
57.4345	17.01	-1.56	11653.500	2.0	185765.000	2.0
57.4373	24.03	-2.59	0.000	1.5	174103.000	2.5
57.4403	17.02	-0.54	0.000	1.5	174093.800	1.5
57.4417	17.01	-1.40	696.100	1.0	174785.700	1.0
57.4431	26.02	-4.79	30857.800	3.0	204943.260	2.0
57.4480	26.02	-4.37	25142.400	3.0	199212.720	4.0
57.4564	17.01	-2.39	0.000	2.0	174045.000	3.0
57.4650	7.01	-0.09	15316.200	2.0	189335.160	3.0
57.4799	14.02	-2.31	53115.010	2.0	227088.720	3.0
57.4814	14.02	-3.06	53115.010	2.0	227084.210	2.0
57.4815	8.00	-0.35	15867.862	2.0	189837.000	1.0
57.4824	14.02	-4.23	53115.010	2.0	227081.190	1.0
57.4951	28.03	-4.24	2618.800	1.5	175446.720	1.5
57.5050	24.03	-0.49	956.000	4.5	174854.000	3.5
57.5179	24.03	-1.33	244.000	2.5	174103.000	2.5
57.5265	26.02	-7.82	24940.900	4.0	198773.950	5.0
57.5307	28.03	-4.47	2040.900	2.5	175861.270	3.5
57.5331	18.02	-1.48	14010.000	2.0	187823.050	2.0
57.5409	17.01	-1.36	996.400	0.0	174785.700	1.0
57.5441	26.02	-5.93	24558.800	5.0	198338.620	4.0
57.5448	26.02	-8.17	24558.800	5.0	198336.580	5.0
57.5451	26.02	-5.37	24940.900	4.0	198717.600	4.0
57.5457	26.02	-5.16	24558.800	5.0	198333.760	6.0
57.5586	17.02	-0.83	0.000	1.5	173736.000	1.5
57.5615	12.03	-3.56	597071.900	1.5	770799.000	1.5
57.5646	26.02	-8.34	24940.900	4.0	198658.800	3.0
57.5791	24.03	-1.44	0.000	1.5	173674.000	1.5
57.5816	28.03	-0.96	18359.000	1.5	192025.500	1.5
57.5969	28.03	-4.77	2618.800	1.5	176239.320	2.5
57.6005	10.00	-3.30	0.000	0.0	173609.530	1.0
57.6034	30.02	-2.90	79273.600	2.0	252874.600	3.0
57.6060	7.01	-4.58	15316.200	2.0	188909.170	1.0
57.6107	17.03	-1.85	13767.000	2.0	187346.000	3.0
57.6119	26.02	-6.44	25142.400	3.0	198717.600	4.0
57.6143	19.03	-0.49	16384.000	2.0	189952.000	3.0
57.6179	20.02	-4.94	212310.040	4.0	385867.200	3.0
57.6229	24.03	-0.66	561.000	3.5	174103.000	2.5
57.6232	7.01	-3.23	15316.200	2.0	188857.370	2.0
57.6274	12.03	-3.58	596527.300	2.5	770056.000	1.5
57.6314	26.02	-5.68	25142.400	3.0	198658.800	3.0
57.6379	28.03	-0.91	18113.100	2.5	191610.010	1.5
57.6484	20.02	-4.22	212310.040	4.0	385775.500	4.0
57.6602	24.03	-0.83	244.000	2.5	173674.000	1.5
57.6678	17.03	-3.04	13767.000	2.0	187174.000	2.0
57.6709	26.02	-6.17	24940.900	4.0	198338.620	4.0
57.6714	26.02	-5.81	24940.900	4.0	198337.060	3.0
57.6716	26.02	-5.92	24940.900	4.0	198336.580	5.0
57.6736	18.01	-0.15	1431.410	1.5	174820.930	1.5
57.6865	10.00	-3.17	0.000	0.0	173350.770	1.0
57.6875	6.01	-2.25	0.000	0.5	173347.840	1.5
57.7029	30.02	-2.56	80850.200	1.0	254151.600	2.0
57.7057	30.02	-4.60	137866.400	2.0	311159.500	2.0
57.7086	6.01	-1.95	63.420	1.5	173347.840	1.5
57.7169	10.00	-3.60	0.000	0.0	173259.430	1.0
57.7197	28.03	-1.44	18359.000	1.5	191610.010	1.5
57.7231	17.03	-2.76	13767.000	2.0	187008.000	1.0
57.7292	17.01	-4.15	0.000	2.0	173222.700	3.0
57.7337	12.03	-3.12	597589.900	1.5	770799.000	1.5
57.7380	26.02	-5.40	25142.400	3.0	198338.620	4.0
57.7385	26.02	-5.80	25142.400	3.0	198337.060	3.0
57.7397	26.02	-5.49	25142.400	3.0	198333.560	2.0
57.7497	18.02	-1.54	14010.000	2.0	187171.120	1.0
57.7585	9.03	-2.15	456884.300	1.0	630019.000	2.0
57.7598	30.02	-2.44	79273.600	2.0	252404.400	3.0
57.7785	28.03	-1.66	18950.800	1.5	192025.500	1.5
57.7985	25.03	-3.65	22959.100	4.0	195974.100	5.0
57.8018	17.01	-3.91	11653.500	2.0	184658.400	2.0
57.8029	17.01	-3.51	11653.500	2.0	184655.200	3.0
57.8072	10.00	-3.02	0.000	0.0	172988.980	1.0
57.8088	12.03	-2.98	597071.900	1.5	770056.000	1.5
57.8107	18.01	-0.57	1431.410	1.5	174409.630	1.5
57.8277	25.03	-2.80	21280.700	4.0	194208.200	3.0
57.8392	18.02	-3.07	14010.000	2.0	186903.050	2.0
57.8513	10.00	-3.44	0.000	0.0	172856.990	1.0
57.8561	30.02	-2.86	80850.200	1.0	253692.700	2.0
57.8576	10.03	-4.10	525017.000	2.5	697855.000	3.5
57.8605	18.01	-0.05	0.000	0.5	172829.580	1.5
57.8606	10.00	-3.12	0.000	0.0	172829.300	1.0
57.8618	10.00	-3.61	0.000	0.0	172825.450	1.0
57.8732	30.02	-3.81	83500.300	2.0	256291.900	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
57.9009	28.03	-1.54	18113.100	2.5	190821.880	2.5
57.9103	25.03	-1.22	21474.800	5.0	194155.700	6.0
57.9153	25.03	-1.19	286.800	2.0	172952.600	3.0
57.9164	9.03	-3.34	456884.300	1.0	629547.000	2.0
57.9176	28.03	-4.97	18950.800	1.5	191610.010	1.5
57.9176	16.05	-1.25	401164.000	0.5	573823.000	0.5
57.9205	17.01	-3.49	0.000	2.0	172650.300	3.0
57.9216	18.02	-2.24	14010.000	2.0	186657.200	3.0
57.9379	25.03	-1.22	21280.700	4.0	193879.400	5.0
57.9466	17.01	-4.27	0.000	2.0	172572.600	2.0
57.9472	10.00	-3.16	0.000	0.0	172570.830	1.0
57.9489	10.00	-3.17	0.000	0.0	172565.900	1.0
57.9618	20.02	-3.41	213379.400	3.0	385906.900	2.0
57.9627	9.03	-2.63	460215.200	0.0	632740.000	1.0
57.9751	20.02	-2.21	213379.400	3.0	385867.200	3.0
57.9771	10.00	-3.32	0.000	0.0	172481.860	1.0
57.9777	25.03	-0.09	21280.700	4.0	193760.700	4.0
57.9789	25.03	-0.12	21679.300	6.0	194155.700	6.0
57.9824	12.03	-2.16	597589.900	1.5	770056.000	1.5
57.9835	28.03	-0.98	18359.000	1.5	190821.880	2.5
57.9841	10.00	-2.85	0.000	0.0	172461.040	1.0
57.9842	25.03	-1.70	21278.800	1.0	193739.600	2.0
57.9895	25.03	-2.62	25440.400	3.0	197885.500	3.0
57.9912	24.02	-6.79	34812.400	0.0	207252.500	1.0
57.9948	15.02	-1.33	0.000	1.5	172429.200	1.5
58.0031	25.03	-0.03	21474.800	5.0	193879.400	5.0
58.0045	25.03	-1.78	552.200	3.0	172952.600	3.0
58.0060	20.02	-0.99	213379.400	3.0	385775.500	4.0
58.0095	14.03	-2.26	160374.410	2.5	332759.920	1.5
58.0099	14.03	-3.21	160375.600	1.5	332759.920	1.5
58.0120	20.02	-2.51	213379.400	3.0	385757.600	3.0
58.0153	14.03	-2.51	160375.600	1.5	332743.870	1.5
58.0201	9.03	-3.52	460385.800	1.0	632740.000	1.0
58.0294	25.03	-2.39	20654.200	0.0	192980.700	1.0
58.0299	12.03	-4.36	597071.900	1.5	769397.000	1.5
58.0362	19.04	-0.01	24012.700	1.5	196319.000	1.5
58.0384	25.03	-1.02	99.000	1.0	172398.700	2.0
58.0398	8.01	-0.50	40466.900	1.5	212762.400	1.5
58.0403	8.01	-0.21	40468.400	1.5	212762.400	1.5
58.0431	25.03	-2.35	21474.800	5.0	193760.700	4.0
58.0512	10.00	-3.25	0.000	0.0	172261.740	1.0
58.0671	25.03	-2.96	25670.800	4.0	197885.500	3.0
58.0689	10.00	-2.84	0.000	0.0	172209.110	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
58.3945	25.03	-4.45	22959.100	4.0	194208.200	3.0	58.8146	26.03	-4.53	32299.600	2.5	202325.400	2.5
58.3970	12.03	-3.32	596527.300	2.5	767769.000	1.5	58.8166	26.03	-4.16	32305.400	3.5	202325.400	2.5
58.4068	25.03	-4.40	552.200	3.0	171765.000	4.0	58.8384	16.03	-4.30	94148.100	2.5	264105.000	1.5
58.4095	26.02	-7.75	30088.840	3.0	201293.750	2.0	58.8398	28.03	-3.80	18359.000	1.5	188311.940	2.5
58.4125	25.03	-1.11	885.800	4.0	172081.900	3.0	58.8464	26.02	-6.20	35803.700	2.0	205737.510	2.0
58.4128	7.01	-2.02	15316.200	2.0	186511.580	2.0	58.8482	26.02	-7.85	35803.700	2.0	205732.370	3.0
58.4248	9.03	-1.94	460385.800	1.0	631546.000	0.0	58.8615	26.02	-6.78	35803.700	2.0	205694.090	1.0
58.4248	9.03	-1.68	460385.800	1.0	631546.000	1.0	58.8670	26.02	-8.93	436.200	3.0	170310.600	3.0
58.4281	26.02	-4.92	42896.900	3.0	214047.380	4.0	58.8705	28.03	-4.56	18950.800	.5	188815.210	1.5
58.4296	25.03	-1.70	552.200	3.0	171698.300	2.0	58.8843	9.00	-4.44	0.000	.5	169824.500	.5
58.4317	19.03	-2.12	0.000	2.0	171140.000	1.0	58.8914	24.03	-3.38	15064.000	3.5	184868.000	3.5
58.4334	2.00	-5.56	0.000	0.0	171135.002	0.0	58.8967	26.02	-6.49	30716.200	2.0	200504.990	2.0
58.4391	26.02	-5.23	30088.840	3.0	201207.290	4.0	58.8987	26.03	-4.55	32299.600	2.5	202082.600	1.5
58.4463	25.03	-5.59	286.800	2.0	171383.900	1.0	58.9015	20.02	-1.50	203851.950	1.0	373626.850	2.0
58.4493	30.02	-3.85	140071.000	1.0	311159.900	2.0	58.9076	30.02	-3.94	141392.500	0.0	311149.800	1.0
58.4526	30.02	-4.28	140071.000	1.0	311149.900	1.0	58.9179	10.00	-2.74	0.000	0.0	169727.630	1.0
58.4530	26.02	-7.05	30088.840	3.0	201166.350	3.0	58.9426	26.02	-7.02	30857.800	3.0	200514.460	4.0
58.4538	26.02	-8.01	30088.840	3.0	201164.210	2.0	58.9459	26.02	-6.28	30857.800	3.0	200504.990	3.0
58.4619	17.01	-2.72	0.000	2.0	171051.500	1.0	58.9492	26.02	-4.12	30886.400	4.0	200524.120	5.0
58.4658	9.03	-2.51	460385.800	1.0	631426.000	2.0	58.9507	9.03	-1.46	460385.800	1.0	630019.000	2.0
58.4775	17.01	-1.56	0.000	2.0	171005.800	2.0	58.9525	26.02	-5.67	30886.400	4.0	200514.460	4.0
58.4829	25.03	-3.34	286.800	2.0	171276.900	3.0	58.9558	26.02	-3.98	30886.400	4.0	200504.990	3.0
58.4886	17.01	-8.82	0.000	2.0	170973.600	3.0	58.9581	26.02	-5.23	30088.840	3.0	199700.830	4.0
58.4971	25.03	-1.66	22791.000	2.0	193739.600	2.0	58.9721	26.02	-8.07	738.900	2.0	170310.600	3.0
58.5046	12.03	-3.24	596527.300	2.5	767454.000	2.5	58.9768	26.02	-4.28	50184.900	2.0	219743.040	1.0
58.5068	25.03	-4.38	22959.100	4.0	193879.400	5.0	58.9911	10.00	-2.24	0.000	0.0	169516.990	1.0
58.5119	9.03	-1.73	460640.600	2.0	631546.000	1.0	58.9919	26.02	-8.34	30088.840	3.0	199603.610	4.0
58.5123	18.01	.32	1431.410	1.5	172335.520	2.5	59.0011	10.00	-2.74	0.000	0.0	169488.415	1.0
58.5143	25.03	-3.79	22862.300	3.0	193760.700	4.0	59.0065	20.02	-2.62	213379.400	3.0	382852.300	2.0
58.5200	26.02	-7.06	34812.400	0.0	205694.090	1.0	59.0073	26.02	-4.59	50184.900	2.0	219655.550	2.0
58.5209	25.03	-9.02	885.800	4.0	171765.000	4.0	59.0085	19.03	-3.48	1673.000	1.0	171140.000	1.0
58.5215	25.03	-6.59	22862.300	3.0	193739.600	2.0	59.0131	24.03	-9.97	15414.000	4.5	184868.000	3.5
58.5247	10.00	-2.47	0.000	0.0	170867.951	1.0	59.0147	28.03	-3.36	18113.100	2.5	187562.390	3.5
58.5304	10.00	-2.97	0.000	0.0	170851.320	1.0	59.0248	9.00	-1.14	404.100	1.5	169824.500	.5
58.5475	25.03	-3.88	22959.100	4.0	193760.700	4.0	59.0252	20.02	-1.43	213379.400	3.0	382798.500	4.0
58.5530	9.03	-1.09	460640.600	2.0	631426.000	2.0	59.0277	20.02	-1.52	213379.400	3.0	382791.500	3.0
58.5551	19.04	-5.51	24012.700	1.5	194792.000	1.5	59.0300	20.02	-2.17	213379.400	3.0	382784.700	3.0
58.5592	25.03	-5.50	99.000	1.0	170866.300	2.0	59.0394	9.03	-3.55	460640.600	2.0	630019.000	2.0
58.5738	25.03	-5.59	552.200	3.0	171276.900	3.0	59.0408	30.02	-3.80	83500.300	2.0	252874.600	3.0
58.5816	28.03	-7.53	18113.100	2.5	188815.210	1.5	59.0457	26.02	-4.72	50295.700	3.0	219655.550	2.0
58.5833	12.03	-4.42	597071.900	1.5	767769.000	1.5	59.0462	10.03	-1.70	478701.000	.5	648060.000	1.5
58.5974	25.03	-2.80	22124.700	2.0	192980.700	1.0	59.0651	26.02	-5.54	30356.200	6.0	199660.840	5.0
58.5990	30.02	-4.24	83500.300	2.0	254151.600	2.0	59.0702	26.02	-4.33	50276.100	4.0	219566.080	3.0
58.6097	25.03	-2.11	25877.700	5.0	196497.900	6.0	59.0742	26.02	-4.29	30356.200	6.0	199634.920	6.0
58.6184	26.02	-4.37	49148.000	0.0	219743.040	1.0	59.0746	26.02	-6.84	0.000	4.0	169277.600	4.0
58.6191	16.03	-3.94	94148.100	2.5	264741.000	2.5	59.0866	26.02	-4.50	50412.300	2.0	219655.550	2.0
58.6237	25.03	-1.69	286.800	2.0	170866.300	2.0	59.0987	20.02	-8.80	213379.400	3.0	382587.900	4.0
58.6243	25.03	-9.90	0.000	0.0	170577.800	1.0	59.1021	26.02	-8.44	35803.700	2.0	205002.470	3.0
58.6244	26.02	-4.36	30716.200	2.0	201293.750	2.0	59.1098	26.02	-3.93	50295.200	3.0	219471.970	4.0
58.6277	26.02	-5.60	30725.800	1.0	201293.750	2.0	59.1118	17.02	-6.49	29812.800	.5	198983.900	1.5
58.6314	10.00	-2.76	0.000	0.0	170557.050	1.0	59.1152	9.03	-3.63	460385.800	1.0	629547.000	2.0
58.6364	19.04	.33	24249.500	2.5	194792.000	1.5	59.1178	26.02	-4.35	50412.300	2.0	219566.080	3.0
58.6378	30.02	-4.91	137866.400	2.0	308404.800	2.0	59.1228	26.02	-6.49	35803.700	2.0	204943.260	2.0
58.6407	30.02	-3.27	137866.400	2.0	308396.500	3.0	59.1228	26.02	-4.36	50276.100	4.0	219415.610	5.0
58.6426	26.02	-5.45	35803.700	2.0	206328.420	3.0	59.1283	26.02	-7.53	30088.840	3.0	199212.720	4.0
58.6437	26.02	-5.87	35803.700	2.0	206324.890	2.0	59.1354	26.02	-6.78	35803.700	2.0	204907.130	1.0
58.6494	30.02	-4.35	140654.800	3.0	311159.500	2.0	59.1375	25.02	-2.56	26891.100	4.5	195948.440	3.5
58.6537	26.02	-5.25	35803.700	2.0	206295.810	1.0	59.1399	25.02	-5.06	26897.800	2.5	195948.440	3.5
58.6550	20.02	-1.36	212310.040	4.0	382798.500	4.0	59.1406	25.02	-3.48	26899.900	3.5	195948.440	3.5
58.6560	9.03	-7.77	460640.600	2.0	631126.000	3.0	59.1442	17.02	.22	29905.600	1.5	198983.900	1.5
58.6574	20.02	-2.90	212310.040	4.0	382791.500	3.0	59.1443	11.04	-6.56	48362.000	1.5	217440.000	.5
58.6583	25.03	-2.21	99.000	1.0	170577.800	1.0	59.1584	20.02	-7.79	204842.640	2.0	373880.370	3.0
58.6597	20.02	-2.65	212310.040	4.0	382784.700	3.0	59.1637	17.02	-2.21	29812.800	.5	198835.500	.5
58.6642	26.02	-4.35	30716.200	2.0	201178.010	1.0	59.1709	25.03	-1.19	21280.700	4.0	190282.800	3.0
58.6661	28.03	-4.61	18359.000	1.5	188815.210	1.5	59.1783	10.03	-1.39	479079.000	1.5	648060.000	1.5
58.6675	26.02	-4.91	30725.800	1.0	201178.010	1.0	59.1830	10.00	-2.52	0.000	0.0	168967.353	1.0
58.6682	26.02	-5.11	30716.200	2.0	201166.350	3.0	59.1898	25.03	-4.02	31385.200	3.0	200333.200	3.0
58.6689	26.02	-5.31	30716.200	2.0	201164.210	2.0	59.1962	17.02	-5.53	29905.600	1.5	198835.500	.5
58.6702	26.02	-4.72	30725.800	1.0	201170.100	0.0	59.2044	9.03	-2.78	460640.600	2.0	629547.000	2.0
58.6722	26.02	-6.89	30725.800	1.0	201164.210	2.0	59.2048	25.03	-3.02	31385.200	3.0	200290.400	4.0
58.6731	26.02	-4.43	30857.800	3.0	201293.750	2.0	59.2052	30.02	-3.34	83500.300	2.0	252404.400	3.0
58.6753	26.02	-4.32	35803.700	2.0	206233.310	2.0	59.2085	25.02	-3.70	26857.800	2.5	195752.480	2.5
58.6766	26.02	-9.12	30088.840	3.0	200514.460	4.0	59.2092	25.02	-2.78	26859.900	3.5	195752.480	2.5
58.6871	17.02	-1.32	18053.000	1.5	188448.100	1.5	59.2137	8.01	-4.09	26830.500	1.5	195710.400	.5
58.6885	25.03	-1.82	885.800	4.0	171276.900	3.0	59.2140	26.02	-1.70	30716.200	2.0	199595.300	3.0
58.6899	24.03	-3.80	14481.000	2.5	184868.000	3.5	59.2201	26.02	-2.58	30716.200	2.0	199577.710	2.0
58.6916	12.03	-3.61	597071.900	1.5	767454.000	2.5	59.2208	25.03	-2.96	31473.500	2.0	200333.200	3.0
58.6935	26.02	-6.55	35803.700	2.0	206180.410	3.0	59.2211	28.03	-2.44	18359.000	1.5	187217.800	.5
58.7008	17.01	-1.54	696.100	1.0	171051.500	1.0	59.2217	25.03	-2.57	21278.800			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
59.3112	26.02	-5.39	30725.800	1.0	199327.950	1.0
59.3154	28.03	-1.70	18359.800	1.5	186949.220	1.5
59.3176	26.02	-5.62	30716.200	2.0	199300.150	2.0
59.3210	26.02	-5.28	30725.800	1.0	199300.150	2.0
59.3237	26.02	-2.09	30088.840	3.0	198655.660	3.0
59.3264	11.04	-6.31	48337.000	2.5	216896.000	1.5
59.3269	25.03	-1.42	21474.800	5.0	190032.400	4.0
59.3309	26.02	-4.74	30716.200	2.0	199262.440	3.0
59.3340	25.03	-1.80	25670.800	4.0	194208.200	3.0
59.3352	11.04	-5.67	48362.000	1.5	216896.000	1.5
59.3408	20.02	-1.94	214334.060	2.0	382852.300	2.0
59.3410	26.02	-2.24	30088.840	3.0	198606.370	2.0
59.3499	26.02	-8.48	30356.200	6.0	198848.380	7.0
59.3527	25.02	-9.95	26824.400	5.5	195308.790	4.5
59.3594	26.02	-8.40	30356.200	6.0	198821.390	6.0
59.3620	25.02	-3.51	26857.800	2.5	195315.780	2.5
59.3621	25.02	-2.15	26851.000	4.5	195308.790	4.5
59.3622	20.02	-1.14	214334.060	2.0	382791.500	3.0
59.3627	25.02	-2.59	26859.900	3.5	195315.780	2.5
59.3646	20.02	-3.13	214334.060	2.0	382784.700	3.0
59.3652	25.02	-3.71	26859.900	3.5	195308.790	4.5
59.3675	26.02	-6.25	30857.800	3.0	199300.150	2.0
59.3762	26.02	-8.55	30356.200	6.0	198773.950	5.0
59.3792	10.03	-1.21	479651.000	2.5	648060.000	1.5
59.3808	26.02	-6.72	30857.800	3.0	199262.440	3.0
59.3842	28.03	-1.82	18113.100	2.5	186508.070	2.5
59.3909	26.02	-9.42	30886.400	4.0	199262.440	3.0
59.3983	26.02	-4.18	30857.800	3.0	199212.720	4.0
59.4058	30.02	-3.82	140071.000	1.0	308404.600	2.0
59.4072	26.02	-1.12	0.000	4.0	168329.670	3.0
59.4084	26.02	-7.90	30886.400	4.0	199212.720	4.0
59.4104	28.03	-3.14	18113.100	2.5	186433.850	1.5
59.4105	25.03	-1.17	25440.400	3.0	193760.700	4.0
59.4156	17.03	-4.24	13767.000	2.0	182073.000	1.0
59.4180	25.03	-4.26	25440.400	3.0	193739.600	2.0
59.4221	25.03	-2.99	552.200	3.0	168839.700	4.0
59.4255	25.03	-1.04	25877.700	5.0	194155.700	6.0
59.4272	25.03	-3.42	21280.700	4.0	189553.900	5.0
59.4294	28.03	-1.70	18950.800	5	187217.800	3.5
59.4312	25.02	-1.08	26851.000	4.5	195112.810	3.5
59.4336	25.02	-3.60	26857.800	2.5	195112.810	3.5
59.4342	26.02	-7.76	30886.400	4.0	199139.760	5.0
59.4343	25.02	-2.04	26859.900	3.5	195112.810	3.5
59.4354	26.02	-8.47	30088.840	3.0	198338.620	4.0
59.4371	10.03	-4.25	532978.000	1.5	701223.000	1.5
59.4483	17.01	-6.68	11653.500	2.0	179867.000	1.0
59.4500	25.03	-1.09	25670.800	4.0	193879.400	5.0
59.4647	17.02	-2.83	18053.000	1.5	186220.000	2.5
59.4710	28.03	-1.34	18359.800	1.5	186508.070	2.5
59.4800	6.01	-7.76	0.000	5	168123.740	1.5
59.4837	25.02	-2.17	26857.800	2.5	194971.150	2.5
59.4844	25.02	-1.22	26859.900	3.5	194971.150	2.5
59.4920	25.03	-1.90	25670.800	4.0	193760.700	4.0
59.4958	25.03	-2.30	21474.800	5.0	189553.900	5.0
59.4973	28.03	-2.45	18359.800	1.5	186433.850	1.5
59.4975	20.02	-1.06	203373.220	0.0	371447.580	1.0
59.5022	6.01	-5.51	63.420	1.5	168124.450	2.5
59.5024	6.01	-1.46	63.420	1.5	168123.740	1.5
59.5100	24.03	-1.15	15414.000	4.5	183453.000	5.5
59.5107	25.02	-1.41	26857.800	2.5	194894.780	1.5
59.5232	25.03	-1.72	25877.700	5.0	193879.400	5.0
59.5244	28.03	-1.72	18950.800	5	186949.220	1.5
59.5269	25.02	-2.07	26857.800	2.5	194849.100	1.5
59.5292	26.02	-1.41	436.200	3.0	168420.990	2.0
59.5308	26.02	-9.44	30356.200	6.0	198336.580	5.0
59.5318	26.02	-8.81	30356.200	6.0	198333.760	6.0
59.5387	25.03	-4.60	22324.700	2.0	190282.800	3.0
59.5401	25.03	-3.52	885.800	4.0	168839.700	4.0
59.5415	30.02	-4.41	140071.000	1.0	308021.000	2.0
59.5442	26.02	-6.86	30716.200	2.0	198658.800	3.0
59.5486	25.03	-2.33	21280.700	4.0	189210.900	4.0
59.5616	26.02	-1.71	436.200	3.0	168329.670	3.0
59.5637	26.02	-9.66	30886.400	4.0	198773.950	5.0
59.5653	25.03	-5.07	25877.700	5.0	193760.700	4.0
59.5678	17.03	-1.23	13767.000	2.0	181643.000	2.0
59.5683	25.03	-6.04	21679.300	6.0	189553.900	5.0
59.5735	26.02	-5.51	30857.800	3.0	198717.600	4.0
59.5837	26.02	-8.14	30886.400	4.0	198717.600	4.0
59.5857	14.03	-2.05	160374.410	2.5	328200.040	2.5
59.5857	14.03	-7.75	160374.410	2.5	328200.040	2.5
59.5861	14.03	-9.91	160375.600	1.5	328200.040	2.5
59.5908	25.03	-2.77	22324.700	2.0	190135.900	2.0
59.5920	10.00	-2.20	0.000	0.0	167807.759	1.0
59.5944	26.02	-7.56	30857.800	3.0	198658.800	3.0
59.5979	25.03	-4.05	99.000	1.0	167890.100	2.0
59.6001	17.02	-5.42	18053.000	1.5	185838.000	1.5
59.6046	26.02	-8.31	30886.400	4.0	198658.800	3.0
59.6057	28.03	-1.05	18113.100	2.5	185882.170	3.5
59.6118	14.02	-1.75	82884.410	1.0	250636.550	2.0
59.6125	30.02	-3.22	140654.800	3.0	308404.800	2.0
59.6155	30.02	-3.82	140654.800	3.0	308396.500	3.0
59.6166	26.02	-1.84	738.900	2.0	168477.360	1.0
59.6175	25.03	-1.14	21474.800	5.0	189210.900	4.0
59.6234	17.02	-3.20	18118.600	2.5	185838.000	1.5
59.6367	26.02	-1.62	738.900	2.0	168420.990	2.0
59.6584	26.02	-5.41	30716.200	2.0	198337.060	3.0
59.6597	26.02	-6.60	30716.200	2.0	198333.560	2.0
59.6631	26.02	-5.29	30725.800	1.0	198333.560	2.0
59.6647	25.03	-4.04	286.800	2.0	167890.100	2.0
59.6674	20.02	-1.16	203851.950	1.0	371447.580	1.0
59.6692	26.02	-2.56	738.900	2.0	168329.670	3.0
59.6855	26.02	-1.73	932.400	1.0	168477.360	1.0
59.6933	11.04	-4.90	48337.000	2.5	215860.000	2.5
59.6937	26.02	-6.27	34812.400	0.0	202334.390	1.0
59.7022	11.04	-5.98	48362.000	1.5	215860.000	2.5
59.7044	25.03	-2.02	22791.000	2.0	190282.800	3.0
59.7056	26.02	-2.21	932.400	1.0	168420.990	2.0
59.7075	28.03	-2.79	18950.800	5	186433.850	1.5
59.7083	26.02	-6.02	30857.800	3.0	198338.620	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
59.7089	26.02	-7.22	30857.800	3.0	198337.060	3.0
59.7101	26.02	-8.58	30857.800	3.0	198333.560	2.0
59.7102	25.03	-7.24	21280.700	4.0	188756.200	3.0
59.7185	26.02	-7.78	30886.400	4.0	198338.620	4.0
59.7191	26.02	-8.19	30886.400	4.0	198337.060	3.0
59.7193	26.02	-2.08	1027.300	0.0	168477.360	1.0
59.7193	26.02	-9.23	30886.400	4.0	198336.580	5.0
59.7215	18.03	-3.96	0.000	1.5	167444.000	5
59.7291	20.02	-2.43	203851.950	1.0	371274.480	2.0
59.7298	25.03	-3.34	22862.300	3.0	190282.800	3.0
59.7427	28.03	-2.28	18113.100	2.5	185497.660	2.5
59.7428	30.02	-3.83	137866.400	2.0	305250.600	3.0
59.7492	30.02	-4.91	140654.800	3.0	308021.000	2.0
59.7539	26.03	-1.22	35251.500	2.5	202604.700	3.5
59.7568	25.03	-4.48	22791.000	2.0	190135.900	2.0
59.7593	25.03	-4.83	552.200	3.0	167890.100	2.0
59.7632	24.03	-1.32	15064.000	3.5	182391.000	4.5
59.7644	25.03	-1.22	22959.100	4.0	190282.800	3.0
59.7700	18.01	-1.14	0.000	5	167307.920	5
59.7730	26.02	-5.28	0.000	4.0	167299.600	5.0
59.7823	25.03	-1.12	22862.300	3.0	190135.900	2.0
59.7827	8.02	-5.77	43186.000	0.0	210458.500	1.0
59.8060	26.02	-5.62	0.000	4.0	167207.300	4.0
59.8193	25.03	-2.10	22862.300	3.0	190032.400	4.0
59.8306	28.03	-2.27	18359.800	1.5	185497.660	2.5
59.8487	19.04	-4.32	40077.000	1.5	207165.000	2.5
59.8497	26.02	-6.30	0.000	4.0	167085.120	3.0
59.8538	26.03	-1.40	35251.500	2.5	202325.400	2.5
59.8540	25.03	-3.31	22959.100	4.0	190032.400	4.0
59.8553	30.02	-2.99	141327.000	4.0	308396.500	3.0
59.8706	10.00	-1.98	0.000	0.0	167026.988	1.0
59.8754	25.03	-3.42	286.800	2.0	167300.300	3.0
59.8819	26.03	-1.53	35329.900	1.5	202325.400	2.5
59.8885	24.03	-2.24	15414.000	4.5	182391.000	4.5
59.8891	10.00	-2.46	0.000	0.0	166975.341	1.0
59.8900	14.02	-2.29	82884.410	1.0	249857.260	0.0
59.8939	19.04	-3.98	39758.000	5	206720.000	1.5
59.9045	25.02	-3.77	26824.400	5.5	193756.790	4.5
59.9136	11.05	-6.71	74434.000	0.0	241341.000	1.0
59.9141	25.02	-4.49	26851.000	4.5	193756.790	4.5
59.9172	25.02	-5.80	26859.900	3.5	193756.790	4.5
59.9213	17.01	-2.23	11653.500	2.0	178539.100	2.0
59.9409	26.03	-2.06	352			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
60.1609	25.02	-3.59	29241.400	1.5	195462.260	.5	60.6340	17.02	-1.18	18118.600	2.5	183042.700	2.5
60.1622	20.02	-4.71	204842.640	2.0	371059.950	3.0	60.6443	10.03	-1.01	479079.000	1.5	643975.000	2.5
60.1668	25.03	-4.41	21474.800	5.0	187679.500	4.0	60.6505	24.03	-2.76	561.000	3.5	165440.000	4.5
60.1795	25.03	-1.89	31385.200	3.0	197554.800	2.0	60.6531	10.03	-0.01	319751.000	1.5	484623.000	1.5
60.1813	25.02	-4.71	26824.400	5.5	192989.050	5.5	60.6640	25.03	-1.41	25440.400	3.0	190282.800	3.0
60.1817	17.01	-3.08	11653.500	2.0	177816.900	2.0	60.6733	25.03	-4.45	22862.300	3.0	187679.500	4.0
60.1873	25.02	-1.56	29167.700	2.5	195315.780	2.5	60.6804	9.01	.07	0.000	2.0	164797.880	2.0
60.1878	7.02	-1.25	131003.500	.5	297150.200	.5	60.6923	9.01	-.63	341.000	1.0	165106.660	1.0
60.1909	25.02	-6.01	26851.100	4.5	192989.050	5.5	60.7026	26.02	-6.91	40999.870	2.0	205737.510	2.0
60.1930	12.03	-3.30	604666.600	1.5	770799.000	1.5	60.7045	26.02	-7.11	40999.870	2.0	205732.370	3.0
60.2044	17.01	-3.01	11653.500	2.0	177754.200	1.0	60.7052	12.03	-3.67	604666.600	1.5	769397.000	.5
60.2081	25.02	-6.86	26857.800	2.5	192948.290	1.5	60.7087	17.03	-.51	0.000	0.0	164721.000	1.0
60.2115	25.03	-1.06	31473.500	2.0	197554.800	2.0	60.7089	25.03	-3.90	22959.100	4.0	187679.500	4.0
60.2140	25.02	-2.22	29241.400	1.5	195315.780	2.5	60.7089	12.03	-4.88	604007.400	2.5	768728.000	2.5
60.2157	26.02	-5.89	932.400	1.0	167002.000	2.0	60.7160	26.02	-6.20	35803.700	2.0	200504.990	3.0
60.2185	26.02	-7.10	436.200	3.0	166498.000	3.0	60.7181	25.03	-3.24	25440.400	3.0	190135.900	2.0
60.2233	12.03	-3.66	604007.400	2.5	770056.000	1.5	60.7186	26.02	-6.91	40999.870	2.0	205694.090	1.0
60.2304	25.02	-3.75	26851.100	4.5	192880.160	3.5	60.7241	25.03	-2.84	22324.700	2.0	187004.000	3.0
60.2315	19.04	-1.03	39758.000	.5	205784.000	.5	60.7246	12.05	-6.03	84900.000	.5	249578.000	1.5
60.2329	25.02	-5.90	26857.800	2.5	192880.160	3.5	60.7253	24.03	-3.18	244.000	2.5	164920.000	3.5
60.2336	25.02	-4.47	26859.900	3.5	192880.160	3.5	60.7472	9.01	-.51	489.900	0.0	165106.660	1.0
60.2418	25.03	-2.40	21280.700	4.0	187278.500	5.0	60.7489	25.03	-1.82	25670.800	4.0	190282.800	3.0
60.2424	8.01	-6.02	0.000	1.5	165996.000	1.5	60.7501	30.02	-3.78	140654.800	3.0	305263.500	2.0
60.2454	8.01	-5.07	0.000	1.5	165987.700	2.5	60.7538	26.03	-.20	32245.700	5.5	196844.500	4.5
60.2489	28.03	-1.91	18113.100	2.5	184091.320	3.5	60.7549	30.02	-4.38	140654.800	3.0	305250.600	3.0
60.2504	25.03	-1.97	31580.700	1.0	197554.800	2.0	60.7559	10.03	-1.52	479079.000	1.5	643672.000	1.5
60.2536	25.03	-.74	22791.000	2.0	188756.200	3.0	60.7563	25.03	-3.03	25440.400	3.0	190032.400	4.0
60.2609	25.02	-3.11	29167.700	2.5	195112.810	3.5	60.7615	16.05	-3.26	462653.000	2.5	627231.000	2.5
60.2629	26.02	-6.53	0.000	4.0	165939.470	5.0	60.7615	16.05	-1.96	462653.000	3.5	627231.000	2.5
60.2695	30.02	-4.00	142483.300	2.0	308404.800	2.0	60.7615	16.05	-2.11	462653.000	2.5	627231.000	1.5
60.2716	30.02	-4.86	145243.900	2.0	311159.500	2.0	60.7696	12.05	-4.72	85022.000	1.5	249578.000	1.5
60.2726	10.00	-2.22	0.000	0.0	165912.782	1.0	60.7712	26.03	-1.40	32293.000	4.5	196844.500	4.5
60.2751	30.02	-4.04	145243.900	2.0	311149.800	1.0	60.7758	26.03	-2.94	32305.400	3.5	196844.500	4.5
60.2795	25.03	-1.87	22862.300	3.0	188756.200	3.0	60.7762	10.03	-1.71	478701.000	.5	643239.000	.5
60.2858	18.01	-.91	1431.410	1.5	167307.920	.5	60.7845	26.02	-7.45	34812.400	0.0	199327.950	1.0
60.2933	15.03	-4.44	68139.000	1.0	233995.000	0.0	60.7962	24.03	-2.19	956.000	4.5	165440.000	4.5
60.2986	25.02	-4.26	26824.400	5.5	192665.800	4.5	60.8062	9.01	-.41	341.000	1.0	164797.880	2.0
60.3013	10.03	-.70	319751.000	1.5	485585.000	.5	60.8196	28.02	-3.21	14031.600	2.0	178452.400	2.0
60.3076	26.02	-5.66	436.200	3.0	166252.740	3.0	60.8196	28.02	-4.84	14031.600	2.0	178452.400	3.0
60.3083	25.02	-5.02	26851.100	4.5	192665.800	4.5	60.8379	26.02	-9.56	42896.900	3.0	207268.200	4.0
60.3115	25.02	-6.37	26859.900	3.5	192665.800	4.5	60.8415	25.03	-1.46	25670.800	4.0	190032.400	4.0
60.3123	25.03	-3.36	21474.800	5.0	187278.500	5.0	60.8424	24.03	-3.04	561.000	3.5	164920.000	3.5
60.3124	25.02	-2.74	29167.700	2.5	194971.150	2.5	60.8530	25.02	-5.10	29167.700	2.5	193498.070	3.5
60.3147	25.03	-3.25	22959.100	4.0	188756.200	3.0	60.8554	10.03	-.63	479651.000	2.5	643975.000	2.5
60.3187	26.02	-5.04	436.200	3.0	166222.200	4.0	60.8571	25.03	-1.66	22959.100	4.0	187278.500	5.0
60.3247	17.01	-2.98	11653.500	2.0	177423.100	1.0	60.8603	12.03	-4.70	603143.300	3.5	767454.000	2.5
60.3285	26.02	-5.41	738.900	2.0	166498.000	3.0	60.8647	26.02	-5.01	20481.900	4.0	184780.800	5.0
60.3392	25.02	-4.09	29241.400	1.5	194971.150	2.5	60.8652	26.02	-5.87	20481.900	4.0	184779.500	4.0
60.3402	25.02	-2.48	29167.700	2.5	194894.780	1.5	60.8655	26.02	-7.05	20481.900	4.0	184778.500	3.0
60.3415	25.03	-4.35	21280.700	4.0	187004.000	3.0	60.8812	26.03	-.30	32293.000	4.5	196547.300	3.5
60.3430	26.02	-9.44	0.000	4.0	165719.200	4.0	60.8837	26.03	-2.83	32299.600	2.5	196547.300	3.5
60.3432	25.02	-4.74	26857.800	2.5	192576.420	2.5	60.8858	26.03	-1.27	32305.400	3.5	196547.300	3.5
60.3440	25.02	-3.93	26859.900	3.5	192576.420	2.5	60.8896	16.01	-3.73	0.000	1.5	164231.780	2.5
60.3470	26.02	-6.51	436.200	3.0	166144.630	2.0	60.8902	17.03	-.58	491.000	1.0	164721.000	1.0
60.3475	19.04	-0.06	40077.000	1.5	205784.000	.5	60.8965	25.03	-4.98	22791.000	2.0	187004.000	3.0
60.3546	25.02	-3.20	29207.300	.5	194894.780	1.5	60.9010	24.03	-1.71	20667.000	2.5	184868.000	3.5
60.3568	25.02	-1.85	29167.700	2.5	194849.100	1.5	60.9121	10.03	-.71	320452.000	.5	484623.000	1.5
60.3600	20.02	-.70	204842.640	2.0	370515.360	3.0	60.9162	10.03	-1.01	479079.000	1.5	643239.000	.5
60.3670	25.02	-2.84	29241.400	1.5	194894.780	1.5	60.9180	25.03	-5.85	21280.700	4.0	185435.900	3.0
60.3712	25.02	-2.14	29207.300	.5	194849.100	1.5	60.9181	25.03	-1.65	25877.700	5.0	190032.400	4.0
60.3737	30.02	-3.90	137866.400	2.0	303501.300	2.0	60.9230	25.03	-4.72	22862.300	3.0	187004.000	3.0
60.3785	25.03	-1.75	31473.500	2.0	197095.400	1.0	60.9239	28.03	-4.09	18113.100	2.5	182252.330	1.5
60.3837	25.02	-2.59	29241.400	1.5	194849.100	1.5	60.9425	26.02	-3.71	20688.400	1.0	184777.600	2.0
60.3868	25.03	-1.28	21679.300	6.0	187278.500	5.0	60.9426	26.02	-4.01	20688.400	1.0	184777.300	1.0
60.3921	12.03	-4.92	603143.300	3.5	768728.000	2.5	60.9437	28.03	-3.23	18113.100	2.5	182198.850	2.5
60.4065	12.05	-4.90	84900.000	.5	250445.000	.5	60.9504	25.02	-4.39	29167.700	2.5	193235.430	2.5
60.4080	25.02	-4.34	26851.100	4.5	192392.200	3.5	60.9528	12.03	-2.21	604666.600	1.5	768728.000	2.5
60.4092	30.02	-4.62	142483.300	2.0	308021.000	2.0	60.9589	25.03	-2.51	22959.100	4.0	187004.000	3.0
60.4104	25.02	-6.54	26857.800	2.5	192392.200	3.5	60.9633	26.03	-1.38	32299.600	2.5	196332.600	2.5
60.4112	25.02	-5.10	26859.900	3.5	192392.200	3.5	60.9655	26.03	-.43	32305.400	3.5	196332.600	2.5
60.4176	25.03	-1.35	31580.700	1.0	197095.400	1.0	60.9671	17.02	-.47	18053.000	1.5	182076.000	1.5
60.4179	26.02	-6.15	738.900	2.0	166252.740	3.0	60.9678	10.03	-.98	479651.000	2.5	643672.000	1.5
60.4201	25.02	-4.33	26857.800	2.5	192365.520	1.5	60.9740	28.03	-2.79	18113.100	2.5	182117.480	3.5
60.4266	26.02	-6.29	35803.700	2.0	201293.750	2.0	60.9746	26.02	-7.72	40999.870	2.0	205002.470	3.0
60.4369	20.02	-1.23	204842.640	2.0	370304.540	2.0	60.9778	25.02	-5.07	29241.400	1.5	193235.430	2.5
60.4392	17.02	-.91	29812.800	.5	195268.200	1.5	60.9890	24.03	-4.25	956.000	4.5	164920.000	3.5
60.4511	12.05	-5.52	85022.000	1.5	250445.000	.5	60.9915	17.02	-1.27	18116.600	2.5	182076.000	1.5
60.4574	26.02	-6.15	738.900	2.0	166144.630	2.0	60.9967	26.02	-8.21	40999.870	2.0	204943.260	2.0
60.4591	17.03	-1.66	1341.000	2.0	166742.000	1.0	61.0040	30.02	-3.55	141327			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
61.1379	25.02	-1.97	32383.700	2.5	195948.440	3.5
61.1435	26.03	-1.30	38775.600	3.5	202325.400	2.5
61.1471	25.03	-.59	25670.800	4.0	189210.900	4.0
61.1492	25.02	-6.76	29207.300	.5	192741.670	.5
61.1530	26.02	-8.22	35803.700	2.0	199327.950	1.0
61.1547	30.02	-3.97	144501.200	3.0	308021.000	2.0
61.1620	25.02	-8.23	29241.400	1.5	192741.670	.5
61.1634	26.02	-8.63	35803.700	2.0	199300.150	2.0
61.1684	10.03	-.96	478701.000	.5	642184.000	1.5
61.1775	26.02	-7.07	35803.700	2.0	199262.440	3.0
61.1821	12.03	-2.67	604007.400	2.5	767454.000	2.5
61.1826	25.02	-3.71	32307.300	3.5	195752.480	2.5
61.1827	24.03	-5.35	14481.000	2.5	177926.000	3.5
61.1878	26.02	-4.62	42896.900	3.0	206325.220	3.0
61.1882	30.02	-3.15	140071.000	1.0	303501.300	2.0
61.1890	26.02	-5.03	42896.900	3.0	206324.890	2.0
61.1962	25.02	-6.07	29167.700	2.5	192576.420	2.5
61.2018	26.03	-1.02	38931.600	2.5	202325.400	2.5
61.2021	10.03	-.57	479079.000	1.5	642472.000	2.5
61.2031	26.03	-1.16	38935.100	1.5	202325.400	2.5
61.2070	17.03	-.40	1341.000	2.0	164721.000	1.0
61.2112	25.02	-1.66	32383.700	2.5	195752.480	2.5
61.2116	25.02	-1.90	32384.700	1.5	195752.480	2.5
61.2128	26.02	-5.61	42896.900	3.0	206261.330	4.0
61.2233	26.02	-5.63	42896.900	3.0	206233.310	2.0
61.2239	25.02	-8.75	29241.400	1.5	192576.420	2.5
61.2245	25.03	-4.39	5877.700	5.0	189210.900	4.0
61.2260	28.03	-3.35	18950.800	.5	182280.040	.5
61.2300	26.02	-3.24	21462.200	4.0	184780.800	5.0
61.2305	26.02	-4.10	21462.200	4.0	184779.500	4.0
61.2309	26.02	-5.28	21462.200	4.0	184778.500	3.0
61.2311	25.03	-.71	25440.400	3.0	188756.200	3.0
61.2364	26.03	-3.41	18950.800	.5	182252.330	1.5
61.2417	25.03	-2.89	21278.800	1.0	184566.100	1.0
61.2432	26.02	-4.78	42896.900	3.0	206130.410	3.0
61.2434	10.03	-.30	479651.000	2.5	642934.000	3.5
61.2602	30.02	-3.36	147921.500	2.0	311159.500	2.0
61.2606	19.01	-.95	0.000	0.0	163237.000	1.0
61.2639	30.02	-4.02	147921.500	2.0	311149.800	1.0
61.2653	25.02	-5.50	29167.700	2.5	192392.200	3.5
61.2714	25.02	-2.46	32383.700	2.5	195592.090	1.5
61.2717	25.02	-2.00	32384.700	1.5	195592.090	1.5
61.2719	10.03	-.95	478701.000	.5	641908.000	.5
61.2748	17.01	-3.23	11653.500	2.0	174852.600	3.0
61.2753	25.02	-6.23	29167.700	2.5	192365.520	1.5
61.2786	26.03	-1.38	38893.400	.5	202082.600	1.5
61.2790	25.02	-2.08	32404.000	.5	195592.090	1.5
61.2869	17.01	-4.34	11653.500	2.0	174820.600	2.0
61.2892	30.02	-3.35	145243.900	2.0	308404.600	2.0
61.2902	25.02	-7.30	29207.300	.5	192365.520	1.5
61.2929	26.03	-1.30	38931.600	2.5	202082.600	1.5
61.2942	26.03	-1.40	38935.100	1.5	202082.600	1.5
61.3000	17.01	-2.26	11653.500	2.0	174785.700	1.0
61.3030	25.02	-7.21	29241.400	1.5	192365.520	1.5
61.3079	25.03	-4.26	22324.700	2.0	185435.900	3.0
61.3102	10.03	-.85	479079.000	1.5	642184.000	1.5
61.3112	12.03	-2.72	604666.600	1.5	767769.000	1.5
61.3137	9.03	-2.56	469644.200	2.0	632740.000	1.0
61.3174	9.03	-.63	469644.200	2.0	632730.000	3.0
61.3176	25.03	-3.10	25670.800	4.0	188756.200	3.0
61.3197	26.02	-3.88	21699.900	3.0	184779.500	4.0
61.3201	26.02	-4.43	21699.900	3.0	184778.500	3.0
61.3205	25.02	-2.37	32384.700	1.5	195462.260	.5
61.3205	26.02	-5.45	21699.900	3.0	184777.600	2.0
61.3278	25.02	-2.20	32404.000	.5	195462.260	.5
61.3407	26.03	-1.53	38893.400	.5	201917.300	.5
61.3465	25.02	-1.51	32307.300	3.5	195315.780	2.5
61.3477	25.02	-5.31	29167.700	2.5	192172.890	2.5
61.3491	25.02	-2.28	32307.300	3.5	195308.790	4.5
61.3564	26.03	-1.49	38935.100	1.5	201917.300	.5
61.3602	24.03	-1.90	15064.000	3.5	178036.000	4.5
61.3753	25.02	-2.57	32383.700	2.5	195315.780	2.5
61.3755	25.02	-6.10	29241.400	1.5	192172.890	2.5
61.3756	25.02	-4.07	32384.700	1.5	195315.780	2.5
61.3787	12.05	-5.22	85022.000	1.5	247945.000	2.5
61.3793	26.02	-4.77	21857.200	2.0	184778.500	3.0
61.3797	26.02	-5.15	21857.200	2.0	184777.600	2.0
61.3798	26.02	-6.15	21857.200	2.0	184777.600	1.0
61.4017	24.03	-.70	15064.000	3.5	177926.000	3.5
61.4043	26.02	-8.25	35803.700	2.0	198658.800	3.0
61.4075	30.02	-3.66	140654.800	3.0	303501.300	2.0
61.4081	25.02	-5.90	29167.700	2.5	192012.750	1.5
61.4097	26.02	-7.79	42896.900	3.0	205737.510	2.0
61.4117	26.02	-6.50	42896.900	3.0	205732.370	3.0
61.4119	30.02	-4.20	137866.400	2.0	300701.400	2.0
61.4141	10.03	-1.64	479079.000	1.5	641908.000	.5
61.4164	25.03	-.70	31385.200	3.0	194208.200	3.0
61.4171	10.03	-.93	479651.000	2.5	642472.000	2.5
61.4176	30.02	-2.57	137866.400	2.0	300686.100	3.0
61.4230	25.02	-5.85	29207.300	.5	192012.750	1.5
61.4230	25.02	-2.32	32307.300	3.5	195112.810	3.5
61.4298	12.03	-2.41	604666.600	1.5	767454.000	2.5
61.4325	30.02	-4.56	142483.300	2.0	305263.500	2.0
61.4345	26.02	-9.44	42896.900	3.0	205672.010	4.0
61.4359	25.02	-6.55	29241.400	1.5	192012.750	1.5
61.4497	25.03	-3.17	31473.500	2.0	194208.200	3.0
61.4508	15.04	-1.86	304161.300	.5	466893.000	1.5
61.4518	25.02	-2.83	32383.700	2.5	195112.810	3.5
61.4597	25.02	-5.94	29207.300	.5	191915.430	.5
61.4726	25.02	-6.00	29241.400	1.5	191915.430	.5
61.4765	25.02	-2.63	32307.300	3.5	194971.150	2.5
61.4836	25.03	-5.61	22791.000	2.0	185435.900	3.0
61.4923	24.03	-.57	15414.000	4.5	178036.000	4.5
61.5054	25.02	-2.60	32383.700	2.5	194971.150	2.5
61.5057	25.02	-3.14	32384.700	1.5	194971.150	2.5
61.5095	25.03	-2.73	22324.700	2.0	184901.200	2.0
61.5106	25.03	-3.96	22862.300	3.0	185435.900	3.0
61.5191	28.02	-1.94	14031.600	2.0	176582.700	1.0
61.5258	26.02	-7.89	35803.700	2.0	198337.060	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
61.5260	10.03	-1.87	479651.000	2.5	642184.000	1.5
61.5272	26.02	-7.45	35803.700	2.0	198333.560	2.0
61.5339	24.03	-2.76	15414.000	4.5	177926.000	3.5
61.5343	25.02	-2.35	32383.700	2.5	194894.780	1.5
61.5346	25.02	-3.82	32384.700	1.5	194894.780	1.5
61.5420	25.02	-3.05	32404.000	.5	194894.780	1.5
61.5472	25.03	-2.81	22959.100	4.0	185435.900	3.0
61.5516	25.02	-2.01	32383.700	2.5	194849.100	1.5
61.5519	25.02	-2.26	32384.700	1.5	194849.100	1.5
61.5551	28.02	-1.48	14031.600	2.0	176487.700	2.0
61.5583	15.04	-1.59	304445.300	1.5	466893.000	2.5
61.5583	15.04	-2.54	304445.300	1.5	466893.000	1.5
61.5593	25.02	-4.72	32404.000	.5	194849.100	1.5
61.5619	30.02	-4.60	145966.600	3.0	308404.800	2.0
61.5628	10.00	-1.98	0.000	0.0	162435.678	1.0
61.5650	30.02	-3.39	145966.600	3.0	308396.500	3.0
61.5692	23.02	-5.04	341.500	3.5	162760.280	4.5
61.5796	17.01	-.89	11653.500	2.0	174045.000	3.0
61.5856	25.03	-3.41	31385.200	3.0	193760.700	4.0
61.5858	24.03	-2.22	21078.000	4.5	183453.000	5.5
61.5936	25.03	-1.80	31385.200	3.0	193739.600	2.0
61.5975	26.02	-3.79	57221.700	4.0	219566.080	3.0
61.6105	24.03	-2.79	0.000	1.5	162310.000	2.5
61.6116	25.03	-.76	25877.700	5.0	188184.800	6.0
61.6272	25.03	-1.23	31473.500	2.0	193739.600	2.0
61.6304	8.01	-.46	26810.700	2.5	189068.370	1.5
61.6365	25.03	-7.16	22324.700	2.0	184566.100	1.0
61.6372	23.02	-3.22	145.500	2.5	162385.110	3.5
61.6374	25.03	-5.50	25440.400	3.0	187679.500	4.0
61.6379	8.01	-1.42	26830.500	1.5	189068.370	1.5
61.6539	26.02	-8.27	42896.900	3.0	205092.530	4.0
61.6559	23.02	-4.99	145.500	2.5	162335.880	3.5
61.6612	23.02	-3.49	583.800	4.5	162760.280	4.5
61.6671	25.02	-2.34	32384.700	1.5	194545.780	.5
61.6679	25.03	-2.22	31580.700	1.0	193739.600	2.0
61.6744	25.02	-2.49	32404.000	.5	194545.780	.5
61.6754	15.04	-1.56	272961.100	.5	435100.400	1.5
61.6808	24.03	-.24	21328.000	5.5	183453.000	5.5
61.6864	25.03	-4.46	22791.000	2.0	184901.200	2.0
61.6882	26.02	-7.62	42896.900	3.0	205002.470	3.0
61.7033	24.03	-1.86	244.000	2.5	162310.000	2.5
61.7063	8.01	-.71	26830.500	1.5	188886.380	.5
61.7077	30.02	-4.02	145966.600	3.0	308021.000	2.0
61.7107	26.02	-5.97	42896.900	3.0	204943.260	2.0
61.7118	23.02	-2.02	341.500	3.5	162385.110	3.5
61.7136	25.03	-3.39	22862.300	3.0	184901.200	2.0
61.7251	25.03	-4.32	25670.800	4.0	187679.500	4.0
61.7305	23.02	-3.49	341.500	3.5	162335.880	3.5
61.7323	17.01	-2.18	0.000	2.0	161989.800	1.0
61.7330	15.03	-2.32	158138.200	2.0	320126.000	2.0
61.7423	14.03	-2.00	160374.410	2.5	322337.830	1.5
61.7428	14.03	-2.96	160375.600	1.5	322337.830	1.5
61.7523	14.03	-2.26	160375.600	1.5	322312.930	.5
61.7569	15.03	-1.41	158138.200	2.0	320063.500	1.0
61.7576	23.02	-3.25	0.000	1.5	161923.280	2.5
61.7609	15.03	-4.32	158138.200	2.0	320053.000	1.0
61.7636	17.01	-1.00	0.000	2.0	161907.700	2.0
61.7754	23.03	-3.59	96412.100	2.0	258288.800	1.0
61.7786	8.03	-.77	390161.200	.5	552029.600	1.5
61.7787	18.01	-3.58	1431.410	1.5	163299.470	2.5
61.7940	24.03	-3.88	244.000	2.5	162072.000	3.5
61.8040	25.03	-2.96	25877.700	5.0	187679.500	4.0
61.8042	23.02	-1.19	583.800	4.5	162385.110	3.5
61.8060	17.01	-.26	0.000	2.0	161796.500	3.0
61.8082	28.02	-4.65	16661.600	2.0	178452.400	4.0
61.8082	28.02	-5.32	16661.600	2.0	178452.400	3.0
61.8107	8.03	-.52	390248.000	1.5	552032.300	2.5
61.8113	25.02	-4.22	57221.700	4.0	219004.530	4.0
61.8117	8.03	-1.47	390248.000	1.5	552029.600	1.5
61.8117	9.03	-2.87	469644.200	2.0	631426.000	2.0
61.8132	23.02	-2.00	145.500	2.5	161923.280	2.5
61.8142	25.03	-4.45	22791.000	2.0	184566.100	1.5
61.8181	24.03	-1.62	0.000	1.5	161765.000	1.5
61.8219	28.02	-4.14	0.000	4.0	161755.000	3.0
61.8230	23.02	-3.10	583.800	4.5	162335.880	3.5
61.8242	24.03	-1.66	561.000	3.5	162310.000	2.5
61.8322	17.02	-4.15	18053.000	1.5	179781.000	.5
61.8424	26.02	-4.07	57221.700	4.0	218923.680	3.0
61.8672	10.00	-1.66	0.000	0.0	161636.617	1.0
61.8774	17.02	-1.26	18053.000	1.5	179663.000	1.5
61.8782	25.03	-.85	25670.800	4.0	187278.500	5.0
61.8882	23.02	-1.40	341.500	3.5	161923.280	2.5
61.8926	20.02	-4.97	212310.040	4.0	373880.370	3.0
61.8929	23.02	-2.26	0.000	1.5	161569.410	1.5
61.8930	17.01	-4.36	11653.500	2.0	173222.700	3.0
61.8950	19.04	-6.75	0.000	1.5	161564.000	2.0
61.8951	25.03	-5.00	25440.400	3.0	187004.000	3.0
61.9025	17.02	-.70	18118.600	2.5	179663.000	1.5
61.9037	26.03	-1.61	32245.700	5.5	193787.000	4.5
61.9102	10.00	-2.13	0.000	0.0	161524.174	1.0
61.9115	24.03	-1.68	244.000	2.5	161765.000	1.5
61.9153	24.03	-1.95	561.000	3.5	162072.000	3.5
61.9167	25.03	-1.87	31473.500	2.0	192980.700	1.0
61.9172	24.03	-6.53	0.000	1.5	161506.000	2.5
61.9218	26.03	-2.80	32293.000	4.5	193787.000	4.5
61.9265	9.03	-2.95	469644.200	2.0	631126.000	3.0
61.9266	26.03	-4.34	32305.400	3.5	193787.000	4.5
61.9292	28.02	-4.49	16977.800	1.0	178452.460	2.0
61.9389	25.02	-5.04	32307.300	3.5	193756.790	4.5
61.9415	23.02	-2.80	145.500	2.5	161588.040	3.5
61.9417	17.02	-3.56	18053.000	1.5	179495.200	2.5
61.9487	23.02	-1.64	145.500	2.5	161569.410	1.5
61.9576	25.03	-2.27	25877.700	5.0	187278.500	5.0
61.9579	25.03	-1.34	31580.700	1.0	192980.700	1.0
61.9669	17.02	-2.82	18118.600	2.5	179495.200	2.5
61.9786	26.02	-7.03	738.900	2.0	162084.800	2.0
61.9830	26.02	-5.87	40999.870	2.0	202334.390	1.0
61.9835	25.03	-3.69	25670.800	4.0	187004.000	3.0
61.9913	24.03	-.34	21078.000	4.5	162391.000	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
61.9979	26.03	-2.50	35251.500	2.5	196547.300	3.5	62.4787	13.02	-3.17	53682.930	.5	213737.440	1.5
61.9987	17.01	-1.00	696.100	1.0	161989.800	1.0	62.4818	30.02	-2.52	140654.800	3.0	300701.400	2.0
62.0029	26.02	-5.70	40999.870	2.0	202282.650	2.0	62.4820	20.02	-7.72	213379.400	3.0	373425.510	4.0
62.0045	23.03	-6.15	96412.100	2.0	257690.800	3.0	62.4840	20.02	-3.05	225826.220	2.0	385867.200	3.0
62.0109	24.03	-1.52	244.000	2.5	161506.000	2.5	62.4851	23.02	-1.82	341.500	3.5	160379.640	2.5
62.0166	26.03	-3.98	32299.600	2.5	193546.800	2.5	62.4878	30.02	-3.12	140654.800	3.0	300686.100	3.0
62.0168	23.02	-2.22	341.500	3.5	161588.040	3.5	62.4912	20.02	-2.19	213379.400	3.0	373401.870	3.0
62.0188	26.03	-2.96	32305.400	3.5	193546.800	2.5	62.4923	30.02	-3.92	145243.900	2.0	305263.500	2.0
62.0274	25.03	-9.93	25440.400	3.0	186659.400	4.0	62.4967	25.02	-5.24	32383.700	2.5	192392.200	3.5
62.0303	17.01	-5.52	696.100	1.0	161907.700	2.0	62.5005	23.02	-1.95	145.500	2.5	160144.260	1.5
62.0345	26.02	-5.47	40999.870	2.0	202200.510	3.0	62.5018	25.03	-5.68	25440.400	3.0	185435.900	3.0
62.0351	19.04	-4.52	0.000	1.5	161199.000	1.5	62.5028	23.02	-2.63	583.800	4.5	160576.620	3.5
62.0383	25.02	-5.53	32307.300	3.5	193498.070	3.5	62.5039	24.03	-6.27	956.000	4.5	160946.000	3.5
62.0479	23.02	-2.63	0.000	1.5	161165.810	2.5	62.5071	25.02	-6.02	32383.700	2.5	192365.520	1.5
62.0531	26.02	-8.04	932.400	1.0	162084.800	2.0	62.5075	25.02	-6.59	32384.700	1.5	192365.520	1.5
62.0671	24.03	-6.64	956.000	4.5	162072.000	3.5	62.5077	23.02	-3.16	341.500	3.5	160321.890	2.5
62.0677	25.02	-6.38	32383.700	2.5	193498.070	3.5	62.5150	25.02	-5.67	32404.000	.5	192365.520	1.5
62.0769	26.03	-2.18	32293.000	4.5	193383.500	3.5	62.5268	20.02	-1.11	225826.220	2.0	385757.600	3.0
62.0795	26.03	-4.69	32299.600	2.5	193383.500	3.5	62.5308	28.02	-1.09	16661.600	2.0	176582.700	1.0
62.0805	26.03	-3.03	35251.500	2.5	196332.600	2.5	62.5320	24.03	-3.51	14185.000	1.5	174103.000	2.5
62.0817	26.03	-3.14	32305.400	3.5	193383.500	3.5	62.5336	24.03	-1.78	15064.000	3.5	174978.000	2.5
62.0875	24.03	-1.31	12328.000	5.5	182391.000	4.5	62.5380	9.03	-1.70	469644.200	2.0	629547.000	2.0
62.1029	17.02	-1.36	18053.000	1.5	179076.100	1.5	62.5438	24.03	-1.37	14215.000	1.5	174103.000	2.5
62.1040	23.02	-2.35	145.500	2.5	161165.810	2.5	62.5525	25.02	-4.63	32307.300	3.5	192172.890	2.5
62.1049	30.02	-3.36	142483.300	2.0	303501.300	2.0	62.5626	26.02	-4.93	24940.900	4.0	184780.800	5.0
62.1102	23.02	-4.37	583.800	4.5	161588.040	3.5	62.5631	26.02	-5.80	24940.900	4.0	184779.500	4.0
62.1108	26.03	-2.70	35329.900	1.5	196332.600	2.5	62.5635	26.02	-6.97	24940.900	4.0	184778.500	3.0
62.1122	24.03	-1.46	0.000	1.5	160999.000	1.5	62.5680	28.02	-6.60	16661.600	2.0	176487.700	2.0
62.1130	17.01	-4.80	11653.500	2.0	172650.300	3.0	62.5701	13.02	-2.89	53916.600	1.5	213737.440	2.5
62.1143	17.01	-8.88	994.400	0.0	161989.800	1.0	62.5701	13.02	-3.84	53916.600	1.5	213737.440	1.5
62.1162	25.03	-2.94	25670.800	4.0	186659.400	4.0	62.5821	24.03	-2.42	15064.000	3.5	174854.000	3.5
62.1237	26.03	-3.68	32299.600	2.5	193268.700	1.5	62.5825	25.02	-4.96	32383.700	2.5	192172.890	2.5
62.1282	17.02	-2.20	18118.600	2.5	179076.100	1.5	62.5828	25.02	-5.27	32384.700	1.5	192172.890	2.5
62.1322	23.03	-4.29	96196.100	1.0	257143.200	2.0	62.5919	25.03	-4.44	25670.800	4.0	185435.900	3.0
62.1330	24.03	-6.61	561.000	3.5	161506.000	2.5	62.5939	28.02	-1.10	16977.800	1.0	176737.700	0.0
62.1375	26.03	-4.43	35251.500	2.5	196184.900	1.5	62.5962	25.03	-1.03	53212.300	4.0	212966.500	5.0
62.1395	25.02	-4.35	32307.300	3.5	193235.430	2.5	62.5970	24.03	-5.55	561.000	3.5	160313.000	2.5
62.1430	17.01	-3.58	11653.500	2.0	172572.600	2.0	62.5970	24.03	-5.07	15414.000	4.5	175166.000	3.5
62.1480	30.02	-4.20	147498.600	1.0	308404.800	2.0	62.6119	17.04	-2.75	113306.000	2.5	273020.000	3.5
62.1532	23.03	-3.91	96798.000	3.0	257690.800	3.0	62.6233	17.04	-3.85	113234.000	1.5	272919.000	2.5
62.1678	26.03	-3.21	35329.900	1.5	196184.900	1.5	62.6356	14.02	-2.04	82884.410	1.0	242537.950	0.0
62.1691	25.02	-4.58	32383.700	2.5	193235.430	2.5	62.6421	26.02	-5.69	25142.400	3.0	184779.500	4.0
62.1694	25.02	-5.28	32384.700	1.5	193235.430	2.5	62.6425	26.02	-6.24	25142.400	3.0	184778.500	3.0
62.1761	30.02	-3.92	147571.200	1.0	308404.800	2.0	62.6428	26.02	-7.26	25142.400	3.0	184777.600	2.0
62.1797	23.02	-3.47	341.500	3.5	161165.810	2.5	62.6452	25.02	-4.92	32383.700	2.5	192012.750	1.5
62.1918	24.03	-1.25	14185.000	1.5	174978.000	2.5	62.6456	25.02	-5.59	32384.700	1.5	192012.750	1.5
62.1961	25.03	-5.14	25877.700	5.0	186659.400	4.0	62.6480	24.03	-2.42	14481.000	2.5	174103.000	2.5
62.1964	26.03	-3.35	35403.800	.5	196184.900	1.5	62.6515	17.04	-3.40	113306.000	2.5	272919.000	2.5
62.2034	24.03	-2.29	14215.000	1.5	174978.000	2.5	62.6532	25.02	-5.64	32404.000	.5	192012.750	1.5
62.2036	30.02	-4.35	144501.200	3.0	305263.500	2.0	62.6547	28.02	-1.26	16977.800	1.0	176582.700	1.0
62.2065	24.03	-4.47	244.000	2.5	160999.000	1.5	62.6559	24.03	-1.74	14072.000	.5	173674.000	1.5
62.2086	30.02	-4.21	144501.200	3.0	305250.600	3.0	62.6560	26.02	-6.81	436.200	3.0	160037.900	2.0
62.2157	23.03	-2.97	96412.100	2.0	257143.200	2.0	62.6751	21.02	-5.55	0.000	1.5	159553.000	2.5
62.2270	24.03	-2.81	244.000	2.5	160946.000	3.5	62.6777	20.02	-3.13	214334.060	2.0	373880.370	3.0
62.2332	23.02	-1.74	341.500	3.5	161027.320	4.5	62.6823	10.00	-1.78	0.000	0.0	159534.620	1.0
62.2336	24.03	-2.14	14481.000	2.5	175166.000	3.5	62.6827	20.02	-4.69	226333.560	3.0	385867.200	3.0
62.2447	23.02	-1.77	583.800	4.5	161240.020	5.5	62.6838	25.02	-5.79	32384.700	1.5	191915.430	.5
62.2547	30.02	-3.11	140071.000	1.0	300701.400	2.0	62.6869	17.04	-4.15	113234.000	1.5	272757.000	1.5
62.2720	23.03	-2.77	96196.100	1.0	256781.800	1.0	62.6914	25.02	-6.07	32404.000	.5	191915.430	.5
62.2770	25.02	-6.41	32307.300	3.5	192880.160	3.5	62.6920	28.02	-9.92	16977.800	1.0	176487.700	2.0
62.2802	25.02	-4.94	32383.700	2.5	192948.290	1.5	62.6987	26.02	-6.70	0.000	4.0	159493.000	3.0
62.2806	25.02	-4.88	32384.700	1.5	192948.290	1.5	62.7002	24.03	-2.92	14185.000	1.5	173674.000	1.5
62.2881	25.02	-5.49	32404.000	.5	192948.290	1.5	62.7017	28.02	-3.28	2269.600	2.0	161755.000	3.0
62.2883	23.03	-2.69	96196.100	1.0	256739.900	0.0	62.7113	25.03	-5.43	25440.400	3.0	184901.200	2.0
62.2904	23.02	-2.26	341.500	3.5	160879.980	4.5	62.7120	24.03	-1.87	14215.000	1.5	173674.000	1.5
62.2913	23.02	-1.71	145.500	2.5	160681.480	3.5	62.7141	23.03	-1.55	96798.000	3.0	256251.700	4.0
62.2966	30.02	-4.28	147498.600	1.0	308021.000	2.0	62.7144	25.03	-1.82	53212.300	4.0	212665.300	4.0
62.3006	24.03	-6.69	0.000	1.5	160512.000	.5	62.7152	17.04	-4.36	113306.000	2.5	272757.000	1.5
62.3049	20.02	-1.98	213379.400	3.0	373880.370	3.0	62.7188	20.02	-1.95	226333.560	3.0	385775.500	4.0
62.3065	24.03	-1.60	14481.000	2.5	174978.000	2.5	62.7195	24.03	-1.12	15414.000	4.5	174854.000	3.5
62.3067	25.02	-4.92	32383.700	2.5	192880.160	3.5	62.7258	20.02	-3.48	226333.560	3.0	385757.600	3.0
62.3150	30.02	-4.63	147421.500	2.0	308396.500	3.0	62.7360	17.01	-5.52	11653.500	2.0	171051.500	1.0
62.3272	23.02	-1.01	583.800	4.5	161027.320	4.5	62.7382	26.03	-4.99	32299.600	2.5	191692.000	1.5
62.3320	23.02	-2.63	145.500	2.5	160576.620	3.5	62.7409	26.02	-6.42	42896.900	3.0	202282.650	2.0
62.3464	28.02	-7.37	1360.700	3.0	161755.000	3.0	62.7437	25.03	-1.18	53286.700	3.0	212665.300	4.0
62.3500	24.03	-1.73	561.000	3.5	160946.000	3.5	62.7502	17.04	-4.95	113234.000	1.5	272596.000	.5
62.3521	23.02	-1.97	0.000	1.5	160379.640	2.5	62.7514	30.02	-2.29	141327.000	4.0	300686.100	3.0
62.3539	9.03	-1.47	469644.200	2.0	630019.000	2.0	62.7522	24.03	-2.75	14317.000	.5	173674.000	1.5
62.3546	24.03	-1.27	14481.000	2.5	174854.000	3.5	62.7528	21.02</					

AVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
62.8894	30.02	-2.88	137866.400	2.0	296875.600	2.0	63.3651	12.03	-1.87	612240.300	1.5	770056.000	1.5
62.8930	30.02	-2.70	144501.200	3.0	303501.300	2.0	63.3748	28.03	-5.14	18950.800	.5	176742.300	.5
62.8985	30.02	-3.84	137866.400	2.0	296852.700	1.0	63.3758	26.03	-1.59	35329.900	1.5	193118.800	.5
62.9022	15.03	-1.08	67911.600	0.0	226888.600	1.0	63.3827	26.03	-1.82	38775.600	3.5	196547.300	3.5
62.9126	23.03	-1.98	96196.100	1.0	255146.800	2.0	63.3855	30.02	-4.76	147498.600	1.0	305263.500	2.0
62.9130	23.03	-2.25	96798.000	3.0	255747.600	3.0	63.3922	28.03	-3.51	18113.100	2.5	175861.270	3.5
62.9167	7.01	-.61	46784.600	2.0	205724.810	3.0	63.4055	26.03	-2.26	35403.800	.5	193118.800	.5
62.9263	24.03	.03	956.000	4.5	159872.000	4.5	63.4087	26.03	-9.06	32299.600	2.5	190006.700	2.5
62.9323	24.03	-1.12	0.000	1.5	158901.000	2.5	63.4110	26.03	-6.31	32305.400	3.5	190006.700	2.5
62.9336	25.03	-1.97	31385.200	3.0	190282.800	3.0	63.4123	24.03	-.86	244.000	2.5	157942.000	3.5
62.9358	17.04	-.24	0.000	.5	158892.000	1.5	63.4146	30.02	-4.49	147571.200	1.0	305263.500	2.0
62.9447	7.01	-.75	46784.600	2.0	205654.220	2.0	63.4188	24.03	-1.50	956.000	4.5	158638.000	4.5
62.9507	30.02	-4.92	137866.400	2.0	296720.900	3.0	63.4194	20.02	-1.27	213379.400	3.0	371059.950	3.0
62.9616	16.01	-2.98	0.000	1.5	158826.870	2.5	63.4202	26.02	-5.97	738.900	2.0	158417.310	2.0
62.9670	7.01	-.97	46784.600	2.0	205597.970	1.0	63.4233	23.03	-3.50	96798.000	3.0	254468.800	2.0
62.9686	25.03	-.89	31473.500	2.0	190282.800	3.0	63.4255	14.02	-1.83	82884.410	1.0	240549.770	2.0
62.9727	24.03	-.10	561.000	3.5	159360.000	3.5	63.4292	28.02	-3.18	54657.900	4.0	212314.000	3.0
62.9732	8.04	-.28	0.000	0.0	158797.711	0.0	63.4447	26.02	-4.16	42896.900	3.0	200514.460	4.0
62.9739	10.00	-1.89	0.000	0.0	158795.992	1.0	63.4455	26.03	-1.57	38931.600	2.5	196547.300	3.5
62.9755	28.02	-4.74	55952.000	2.0	214744.000	2.0	63.4474	28.02	-4.03	55406.100	3.0	213017.000	2.0
62.9905	26.02	-6.55	738.900	2.0	159493.000	3.0	63.4485	26.02	-6.23	42896.900	3.0	200504.990	3.0
62.9918	25.03	-3.00	31385.200	3.0	190135.900	2.0	63.4534	28.03	-4.59	18950.800	.5	176546.720	1.5
62.9922	20.02	-2.64	212310.040	4.0	371059.950	3.0	63.4580	26.03	-6.81	32299.600	2.5	189884.200	1.5
62.9923	15.03	-.60	68139.000	1.0	226888.600	1.0	63.4691	26.03	-3.11	38775.600	3.5	196332.600	2.5
62.9982	23.03	-2.04	96412.100	2.0	255146.800	2.0	63.4736	26.02	-8.21	436.200	3.0	157982.000	3.0
63.0001	26.02	-4.88	0.000	4.0	158729.890	3.0	63.4781	30.02	-2.76	145966.600	3.0	303501.300	2.0
63.0137	9.02	-.52	51560.600	.5	210256.300	1.5	63.4809	30.02	-3.95	78096.300	3.0	235623.900	3.0
63.0140	9.02	-1.20	51561.400	1.5	210256.300	1.5	63.4846	26.02	-5.74	738.900	2.0	158257.370	1.0
63.0165	8.01	-5.41	26810.700	2.5	185499.200	2.5	63.4876	17.04	-4.52	113234.000	1.5	270745.000	.5
63.0198	9.02	-.26	51561.400	1.5	210241.700	2.5	63.4949	20.02	-3.42	228413.950	3.0	385906.900	2.0
63.0244	8.01	-6.55	26830.500	1.5	185499.200	2.5	63.4961	23.03	-1.81	100200.700	2.0	257690.600	3.0
63.0253	16.01	-3.63	0.000	1.5	158666.450	1.5	63.4981	26.02	-6.90	932.400	1.0	158417.310	2.0
63.0258	23.03	-3.08	96798.000	3.0	255463.300	2.0	63.5109	20.02	-2.06	228413.950	3.0	385667.200	3.0
63.0269	25.03	-2.51	31473.500	2.0	190135.900	2.0	63.5150	18.04	-3.18	37913.000	0.0	193536.000	1.0
63.0291	24.03	-.26	244.000	2.5	158901.000	2.5	63.5197	7.01	-.53	32688.800	0.0	190120.240	1.0
63.0328	23.03	-1.57	96798.000	3.0	255445.500	3.0	63.5199	28.02	-3.85	55406.100	3.0	212637.000	4.0
63.0329	25.03	-.85	31385.200	3.0	190032.400	4.0	63.5320	26.03	-1.84	38931.600	2.5	196332.600	2.5
63.0377	17.02	-.76	29812.800	.5	188448.100	1.5	63.5324	17.04	.49	1492.000	1.5	158892.000	1.5
63.0406	23.03	-1.89	96196.100	1.0	254824.100	1.0	63.5325	14.02	-3.88	82884.410	1.0	240284.280	2.0
63.0525	30.02	-3.35	137866.400	2.0	296464.300	2.0	63.5334	26.03	-1.78	38935.100	1.5	196332.600	2.5
63.0535	26.02	-.97	40999.870	2.0	199595.300	3.0	63.5401	24.03	-2.29	561.000	3.5	157942.000	3.5
63.0625	28.02	-.13	55406.100	3.0	213979.000	3.0	63.5422	28.02	-1.94	0.000	4.0	157375.700	4.0
63.0665	26.02	-.96	0.000	4.0	158562.700	4.0	63.5441	25.03	-3.07	31385.200	3.0	188756.200	3.0
63.0681	12.03	-3.28	612240.300	1.5	770799.000	1.5	63.5449	24.03	-1.05	0.000	1.5	157369.000	2.5
63.0695	25.03	-1.13	31580.700	1.0	190135.900	2.0	63.5479	20.02	-.73	228413.950	3.0	385775.500	4.0
63.0710	30.02	-4.32	137866.400	2.0	296417.900	1.0	63.5504	30.02	-4.50	80850.200	1.0	238205.500	1.0
63.0746	17.02	-1.23	29905.600	1.5	188448.100	1.5	63.5552	20.02	-2.11	228413.950	3.0	385757.600	3.0
63.0772	24.03	-.39	0.000	1.5	158536.000	1.5	63.5560	26.03	-1.31	35251.500	2.5	192593.000	2.5
63.0796	8.01	-.44	26810.700	2.5	185340.680	1.5	63.5627	26.02	-5.74	932.400	1.0	158257.370	1.0
63.0842	20.02	-2.01	227388.560	2.0	385906.900	2.0	63.5733	25.03	-3.84	21280.700	4.0	178579.500	4.0
63.0874	8.01	-.51	26830.500	1.5	185340.680	1.5	63.5762	26.03	-1.92	38893.400	.5	196184.900	1.5
63.0907	24.03	-.80	956.000	4.5	159458.000	5.5	63.5798	25.03	-1.97	31473.500	2.0	188756.200	3.0
63.0977	17.02	-.53	29905.600	1.5	188390.100	2.5	63.5857	26.03	-2.69	32245.700	5.5	189513.700	4.5
63.1000	20.02	-.88	227388.560	2.0	385867.200	3.0	63.5877	26.03	-1.65	35329.900	1.5	192593.000	2.5
63.1015	20.02	-1.11	227432.110	1.0	385906.900	2.0	63.5894	24.03	-4.18	20667.000	2.5	177926.000	3.5
63.1170	28.02	-4.23	56308.200	1.0	214744.000	2.0	63.5917	26.03	-3.00	38931.600	2.5	196184.900	1.5
63.1179	28.03	-3.84	18113.100	2.5	176546.720	1.5	63.5931	26.03	-2.06	38935.100	1.5	196184.900	1.5
63.1265	23.03	-2.35	96412.100	2.0	254824.100	1.0	63.5938	26.02	-5.91	436.200	3.0	157684.300	2.0
63.1294	8.01	-5.09	26830.500	1.5	185235.360	.5	63.5958	26.02	-5.19	738.900	2.0	157982.000	3.0
63.1297	24.03	-1.38	956.000	4.5	159360.000	3.5	63.5994	6.01	-1.82	0.000	.5	157234.070	.5
63.1326	26.02	-7.44	42896.900	3.0	201293.750	2.0	63.6011	26.02	-5.93	1027.300	0.0	158257.370	1.0
63.1380	28.03	-3.81	18359.000	1.5	176742.300	.5	63.6049	26.03	-4.84	32293.000	4.5	189513.700	4.5
63.1436	30.02	-4.54	79737.600	2.0	237642.700	3.0	63.6099	26.03	-7.12	32305.400	3.5	189513.700	4.5
63.1437	20.02	-4.44	227388.560	2.0	385757.600	3.0	63.6251	6.01	-1.52	63.420	1.5	157234.070	.5
63.1517	23.03	-2.48	96798.000	3.0	255146.800	2.0	63.6308	12.03	-2.93	612240.300	1.5	769397.000	.5
63.1552	24.03	-1.17	561.000	3.5	158901.000	2.5	63.6320	20.02	-1.20	213379.400	3.0	370533.070	4.0
63.1670	26.02	-8.43	42896.900	3.0	201207.290	4.0	63.6344	26.02	-3.43	49148.000	0.0	206295.810	1.0
63.1731	26.03	-1.08	35251.500	2.5	193546.800	2.5	63.6392	20.02	-1.88	213379.400	3.0	370515.360	3.0
63.1737	26.02	-5.79	436.200	3.0	158729.890	3.0	63.6436	24.03	-5.60	244.000	2.5	157369.000	2.5
63.1744	24.03	-1.20	244.000	2.5	158536.000	1.5	63.6468	17.04	-3.66	113306.000	2.5	270423.000	1.5
63.1787	15.03	-.37	68607.400	2.0	226888.600	1.0	63.6482	20.02	-2.95	214334.060	2.0	371447.580	1.0
63.1821	23.03	-3.75	96196.100	1.0	254468.800	2.0	63.6518	25.03	-3.31	21474.800	5.0	178579.500	4.0
63.1834	26.02	-7.46	42896.900	3.0	201166.350	3.0	63.6679	28.02	-4.08	55952.000	2.0	213017.000	2.0
63.1842	26.02	-9.15	42896.900	3.0	201164.210	2.0	63.6815	18.02	-1.61	0.000	2.0	157031.400	1.0
63.1861	26.02	-9.65	40999.870	2.0	199262.440	3.0	63.6837	20.02	-1.58	225826.220	2.0	382852.300	2.0
63.1882	30.02	-6.14	145243.900	2.0	303501.300	2.0	63.6999	24.03	-2.55	956.000	4.5	157942.000	3.5
63.2019	20.02	-1.12	212310.040	4.0	370533.070	4.0	63.7055	28.02	-1.13	0.000	4.0	156972.200	3.0
63.2039	30.02	-3.29	142483.300	2.0	300701.400	2.0	63.7084	20.02	-.93	225826.220	2.0	382791.500	3.0
63.2044	26.03	-1.41	35329.900	1.5	193546.800	2.5	63.7111	20.02	-2.95	225826.220	2.0	382784.700	3.0
63.													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
63.8339	30.02	-4.70	80850.200	1.0	237506.800	1.0	64.1872	28.02	-1.26	1360.700	3.0	157154.900	2.0
63.8340	26.02	-3.13	49576.900	1.0	206233.310	2.0	64.1881	30.02	-2.01	137866.400	2.0	293568.400	3.0
63.8530	26.03	-2.84	32299.600	4.5	188902.700	3.5	64.1888	6.01	-0.36	43053.600	2.5	198844.000	2.5
63.8557	26.03	-6.07	32299.600	2.5	188902.700	3.5	64.1909	26.03	-3.70	92299.600	2.5	188084.900	1.5
63.8581	26.03	-4.15	32305.400	3.5	188902.700	3.5	64.1980	26.02	-2.91	50412.300	2.0	206180.410	3.0
63.8647	23.03	-4.03	100200.700	2.0	256781.800	1.0	64.2006	26.02	-8.62	42896.900	3.0	198658.800	3.0
63.8729	19.04	-4.20	39758.000	5	196319.000	5	64.2053	25.03	-2.70	22324.700	2.0	178075.100	3.0
63.8729	17.02	-6.25	18053.000	1.5	174613.900	2.5	64.2107	26.02	-4.15	63425.170	6.0	219162.420	6.0
63.8901	20.02	-2.98	226333.560	5.0	382852.300	2.0	64.2190	25.03	-1.65	22862.300	3.0	178579.500	4.0
63.8997	17.02	-4.75	18118.600	2.5	174613.900	2.5	64.2220	30.02	-4.75	80850.200	1.0	236560.000	0.0
63.9028	12.03	-2.01	612240.300	1.5	768728.000	2.5	64.2304	26.03	-1.31	35329.900	1.5	191019.400	5
63.9061	30.02	-3.79	78096.300	3.0	234576.000	4.0	64.2331	17.02	-5.36	18053.000	1.5	173736.000	5
63.9121	20.02	-6.67	226333.560	3.0	382798.500	4.0	64.2394	26.02	-4.80	63425.170	6.0	219092.860	5.0
63.9149	20.02	-3.29	226333.560	3.0	382791.500	3.0	64.2564	26.02	-4.37	63466.390	5.0	219092.860	5.0
63.9177	20.02	-1.35	226333.560	3.0	382784.700	3.0	64.2589	25.03	-0.74	22959.100	4.0	178579.500	4.0
63.9221	26.03	-1.26	35251.500	2.5	191692.000	1.5	64.2596	25.03	-2.72	31385.200	3.0	187004.000	3.0
63.9227	17.04	-1.18	1492.000	1.5	157931.000	5	64.2609	26.03	-1.99	35403.800	5	191019.400	5
63.9357	17.02	-1.57	29812.800	5	186220.000	5	64.2626	28.02	-7.00	1360.700	3.0	156972.200	3.0
63.9373	26.02	-8.15	42896.900	3.0	199300.150	2.0	64.2701	30.02	-4.31	79273.600	2.0	234866.900	1.0
63.9414	30.02	-2.60	140071.000	1.0	296464.300	2.0	64.2757	30.02	-2.66	147921.500	2.0	303501.300	2.0
63.9527	26.02	-7.64	42896.900	3.0	199262.440	3.0	64.2816	23.03	-2.84	0.000	2.0	155565.500	1.0
63.9541	26.03	-2.19	35329.900	1.5	191692.000	1.5	64.2961	25.03	-4.08	31473.500	2.0	187004.000	3.0
63.9542	28.02	-4.54	55952.000	2.0	212314.000	3.0	64.2968	12.03	-1.89	612240.300	1.5	767769.000	1.5
63.9587	25.03	-3.06	21278.800	1.0	177629.800	2.0	64.3013	26.02	-4.70	63486.780	4.0	219004.530	4.0
63.9603	30.02	-3.03	140071.000	1.0	296417.900	1.0	64.3029	30.02	-4.09	78096.300	3.0	236610.400	2.0
63.9626	26.02	-4.16	57221.700	4.0	213563.080	5.0	64.3043	26.02	-4.92	63494.000	3.0	219004.530	4.0
63.9706	30.02	-4.93	137866.400	2.0	294188.300	2.0	64.3117	28.02	-1.45	1360.700	3.0	156853.400	3.0
63.9731	26.02	-9.15	42896.900	3.0	199212.720	4.0	64.3124	20.04	-4.43	2406.000	1.0	157897.000	0.0
63.9736	17.02	-3.31	29905.600	1.5	186220.000	5	64.3237	20.02	-2.46	227388.560	2.0	382852.300	2.0
63.9803	30.02	-3.92	140654.800	3.0	296953.000	2.0	64.3247	18.02	-3.37	1570.200	0.0	157031.400	1.0
63.9819	25.03	-3.72	31385.200	3.0	187679.500	4.0	64.3251	30.02	-1.88	141392.500	0.0	296852.700	1.0
63.9844	26.03	-1.49	35403.800	5	191692.000	1.5	64.3263	30.02	-2.65	145243.900	2.0	300701.400	2.0
63.9846	30.02	-4.96	78096.300	3.0	234384.000	3.0	64.3265	10.03	-4.54	488215.000	5	663672.000	1.5
63.9932	30.02	-2.79	140654.800	3.0	296921.300	3.0	64.3293	27.02	-3.27	841.200	3.5	156291.400	2.5
63.9970	30.02	-1.56	137866.400	2.0	294123.700	3.0	64.3326	30.02	-4.33	145243.900	2.0	300686.100	3.0
63.9982	20.02	-1.42	226333.560	3.0	382587.900	4.0	64.3328	26.02	-7.68	42896.900	3.0	198338.620	4.0
64.0006	26.02	-4.59	63494.560	2.0	219743.040	1.0	64.3334	26.02	-9.65	42896.900	3.0	198337.060	3.0
64.0033	19.04	-1.01	40077.000	1.5	196319.000	5	64.3349	26.02	-8.01	42896.900	3.0	198333.560	3.0
64.0061	25.03	-1.13	53212.300	4.0	209447.500	4.0	64.3350	26.02	-4.91	63486.780	4.0	218923.080	3.0
64.0120	30.02	-3.81	140654.800	3.0	296875.600	2.0	64.3380	26.02	-4.73	63494.000	3.0	218923.080	3.0
64.0121	7.01	-3.04	32688.800	0.0	188909.170	1.0	64.3417	20.02	-1.34	227432.110	1.0	382852.300	2.0
64.0204	30.02	-3.09	144501.200	3.0	300701.400	2.0	64.3488	20.02	-3.83	227388.560	2.0	382791.500	3.0
64.0215	30.02	-4.11	80850.200	1.0	237047.800	2.0	64.3517	20.02	-1.22	227388.560	2.0	382784.700	3.0
64.0258	13.02	-2.45	53682.930	5	209869.890	5	64.3604	12.03	-4.27	597589.900	5	752965.000	1.5
64.0267	30.02	-2.95	144501.200	3.0	300686.100	3.0	64.3642	26.02	-4.76	63494.560	2.0	218860.430	2.0
64.0282	20.02	-2.87	214334.060	2.0	370515.360	3.0	64.3734	28.02	-2.21	23108.700	4.0	178452.400	3.0
64.0291	30.02	-4.20	79273.600	2.0	235452.500	2.0	64.3832	26.02	-4.56	50412.300	2.0	205732.370	3.0
64.0295	30.02	-2.32	137866.400	2.0	294044.500	1.0	64.3894	25.03	-3.58	22324.700	2.0	177629.800	2.0
64.0333	30.02	-1.35	137866.400	2.0	294035.100	2.0	64.3981	25.03	-1.65	22791.000	2.0	178075.100	3.0
64.0362	26.02	-4.48	63494.000	3.0	219655.550	2.0	64.3991	26.02	-4.52	50412.300	2.0	205694.090	1.0
64.0366	25.03	-1.85	53286.700	3.0	209447.500	4.0	64.4022	25.03	-4.45	31385.200	3.0	186659.400	4.0
64.0366	26.02	-4.61	49576.900	1.0	205737.510	2.0	64.4024	8.03	-6.65	419533.900	1.5	574807.700	2.5
64.0417	16.01	-1.57	0.000	1.5	156148.190	5	64.4070	23.03	-2.15	100200.700	2.0	255463.300	2.0
64.0437	26.02	-3.55	50184.900	2.0	206328.220	3.0	64.4093	8.03	-5.50	419550.600	2.5	574807.700	3.5
64.0451	26.02	-2.59	50184.900	2.0	206324.890	2.0	64.4093	8.03	-1.80	419550.600	2.5	574807.700	2.5
64.0474	25.02	-7.78	39174.400	5.5	195308.790	4.5	64.4121	18.02	-1.89	33267.000	0.0	188517.320	1.0
64.0501	26.03	-4.32	32299.600	2.5	188427.500	2.5	64.4144	23.03	-4.35	100200.700	2.0	255445.500	3.0
64.0524	26.03	-3.17	32305.400	3.5	188427.500	2.5	64.4149	8.01	-1.15	40468.400	5	195710.400	5
64.0527	16.01	-2.45	0.000	1.5	156121.330	2.5	64.4156	8.01	-4.44	40468.400	5	195710.400	5
64.0544	26.02	-4.76	49576.900	1.0	205694.090	1.0	64.4273	12.03	-2.04	612240.300	1.5	767454.000	2.5
64.0570	26.02	-2.94	50184.900	2.0	206295.810	1.0	64.4277	25.03	-8.87	22862.300	3.0	178075.100	3.0
64.0602	25.03	-2.72	53212.300	4.0	209315.500	3.0	64.4334	13.02	-3.10	53682.930	5	208881.830	1.5
64.0700	26.02	-4.37	63486.780	4.0	219566.080	3.0	64.4482	28.02	-2.09	1360.700	3.0	156524.100	2.0
64.0730	26.02	-4.95	63494.000	3.0	219566.080	3.0	64.4634	7.01	-4.43	0.000	0.0	155126.730	1.0
64.0754	30.02	-3.86	140654.800	3.0	296720.900	3.0	64.4679	25.03	-1.54	22959.100	4.0	178075.100	3.0
64.0801	25.03	-1.95	53260.700	2.0	209315.500	3.0	64.4702	30.02	-4.04	79273.600	2.0	234384.000	3.0
64.0812	26.02	-4.88	50276.100	4.0	206328.220	3.0	64.4837	7.01	-0.05	48.700	1.0	155126.730	1.0
64.0827	26.02	-3.99	50184.900	2.0	206233.310	2.0	64.4920	10.03	-4.20	488917.000	1.5	643975.000	2.5
64.0843	8.00	-4.35	33792.583	0.0	189837.000	1.0	64.5020	19.04	-6.62	39758.000	5	194792.000	1.5
64.0858	17.02	-4.65	18053.000	1.5	174093.800	1.5	64.5056	30.02	-2.68	141392.500	0.0	296417.900	1.0
64.0890	26.02	-2.52	50295.200	3.0	206328.220	3.0	64.5114	26.03	-2.83	38775.600	3.5	193787.000	4.5
64.0904	26.02	-4.73	50295.200	3.0	206324.890	2.0	64.5128	25.03	-3.41	21280.700	4.0	176288.600	5.0
64.0905	16.01	-1.29	0.000	1.5	156029.280	1.5	64.5178	7.01	-2.27	130.800	2.0	155126.730	1.0
64.0907	25.03	-1.28	53286.700	3.0	209315.500	3.0	64.5273	26.03	-3.53	35251.500	2.5	190224.600	3.5
64.0922	17.02	-4.08	29812.800	5	185838.000	1.5	64.5306	28.02	-1.36	2269.600	2.0	157234.800	1.0
64.0964	28.02	-2.87	1360.700	3.0	157375.700	4.0	64.5306	13.02	-2.82	53916.600	1.5	208881.830	2.5
64.1003	26.02	-4.12	63466.390	5.0	219471.970	4.0	64.5306	13.02	-3.77	53916.600	1.5	208881.830	1.5
64.1015	30.02	-3.02	147498.600	1.0	303501.300	2.0	64.5386	23.03	-2.02	100200.700	2.0	255146.800	2.0
64.1028	25.03	-1.38	53260.700	2.0	209260.20								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
64.6756	17.01	-8.88	0.000	2.0	154617.800	1.0	65.1773	25.03	-3.36	31473.500	2.0	184901.200	2.0
64.6767	26.03	-1.49	38931.600	2.5	193546.800	2.5	65.1974	30.02	-2.52	140654.800	3.0	294035.100	2.0
64.6782	26.03	-2.21	38935.100	1.5	193546.800	2.5	65.1978	30.02	-0.96	140654.800	3.0	294034.300	4.0
64.6792	25.03	-1.16	21679.300	6.0	176288.600	5.0	65.2190	25.03	-0.99	22959.100	4.0	176288.600	5.0
64.6797	26.03	-3.80	38775.600	3.5	193383.500	3.5	65.2219	14.02	-1.38	52853.280	1.0	206176.080	1.0
64.6898	28.02	-2.19	2269.600	2.0	156853.600	3.0	65.2229	25.03	-4.72	31580.700	1.0	184901.200	2.0
64.7022	26.03	-3.92	35229.900	1.5	189884.200	1.5	65.2389	16.01	-1.40	0.000	1.5	153282.800	2.5
64.7112	25.03	-1.92	21280.700	4.0	175813.400	4.0	65.2456	10.03	-4.04	488917.000	1.5	642184.000	1.5
64.7253	24.03	-1.90	20667.000	2.5	175166.000	3.5	65.2512	16.03	0.06	71180.000	0.5	224434.000	1.5
64.7329	28.02	-2.37	1360.700	3.0	155841.700	4.0	65.2642	28.02	-0.58	53703.700	5.0	206927.000	5.0
64.7331	26.03	-3.03	35403.800	0.5	189884.200	1.5	65.2675	8.02	-1.27	197086.700	1.0	350302.300	2.0
64.7376	30.02	-1.75	142483.300	2.0	296953.000	2.0	65.2730	30.02	-3.50	147498.600	1.0	300701.400	2.0
64.7413	17.03	-1.13	32547.000	0.0	187008.000	1.0	65.2734	16.01	-1.89	0.000	1.5	153201.720	1.5
64.7451	26.03	-3.53	38931.600	2.5	193383.500	3.5	65.2810	23.03	-2.56	734.700	4.0	153918.700	3.0
64.7508	20.02	-3.08	228413.950	3.0	382852.300	2.0	65.2844	26.03	-4.51	35251.500	2.5	188427.500	2.5
64.7509	30.02	-3.70	142483.300	2.0	296921.300	3.0	65.2852	28.02	-1.78	2269.600	2.0	155443.700	2.0
64.7565	27.02	-3.47	1866.800	1.5	156291.000	2.5	65.2939	16.01	-2.86	0.000	1.5	153153.660	0.5
64.7622	10.04	-1.88	640868.000	2.0	795279.000	2.0	65.2950	16.03	0.06	71180.000	0.5	224331.000	0.5
64.7622	10.04	-1.40	640868.000	2.0	795279.000	1.0	65.3001	25.03	-2.73	25440.400	3.0	178579.500	4.0
64.7733	20.02	-4.02	228413.950	3.0	382798.500	4.0	65.3010	17.02	0.24	29905.600	1.5	183042.700	2.5
64.7763	20.02	-1.93	228413.950	3.0	382791.500	3.0	65.3039	30.02	-3.22	147571.200	1.0	300701.400	2.0
64.7772	26.03	-2.43	38893.400	0.5	193268.700	1.5	65.3120	25.03	-3.89	22324.700	2.0	175436.000	3.0
64.7791	20.02	-3.26	228413.950	3.0	382784.700	3.0	65.3178	26.03	-4.97	35329.900	2.5	186427.500	2.5
64.7797	30.02	-2.64	142483.300	2.0	296852.700	1.0	65.3199	25.03	-3.09	31473.500	2.0	184566.100	1.0
64.7878	20.04	-1.56	2406.000	1.0	156756.000	1.0	65.3231	28.02	-1.16	54657.900	4.0	207743.000	3.0
64.7926	25.03	-2.23	21474.800	5.0	175813.400	4.0	65.3298	30.02	-1.96	140654.800	3.0	293724.300	2.0
64.7932	26.03	-1.69	38931.600	2.5	193268.700	1.5	65.3318	26.03	-4.77	49539.900	2.5	202604.700	3.5
64.7947	26.03	-1.79	38935.100	1.5	193268.700	1.5	65.3334	14.02	-1.16	53115.010	2.0	206176.080	1.0
64.7996	10.03	-4.19	488917.000	1.5	643239.000	0.5	65.3440	8.02	-1.46	197086.700	1.0	350122.900	1.0
64.8042	24.03	-4.43	20667.000	2.5	174978.000	2.5	65.3552	16.03	0.46	71524.000	1.5	224534.000	2.5
64.8222	23.03	-1.41	100200.700	2.0	254468.800	2.0	65.3565	24.03	-2.22	20667.000	2.5	173674.000	1.5
64.8279	28.02	-1.98	2269.600	2.0	156524.100	2.0	65.3579	30.02	-2.56	140654.800	3.0	293658.400	3.0
64.8294	27.02	-1.79	1451.300	2.5	155702.400	1.5	65.3633	10.03	-4.83	488917.000	1.5	641908.000	0.5
64.8350	30.02	-1.15	142483.300	2.0	296720.900	3.0	65.3657	25.03	-3.70	31580.700	1.0	184566.100	1.0
64.8402	26.03	-2.11	38893.400	0.5	193118.800	0.5	65.3693	14.01	-1.63	0.000	0.5	152977.000	0.5
64.8504	16.05	-1.18	247420.000	1.5	401621.000	1.5	65.3698	30.02	-1.42	141327.000	4.0	294302.800	4.0
64.8563	24.03	-2.56	20667.000	2.5	174854.000	3.5	65.3702	17.03	-5.52	13767.000	2.0	166742.000	1.0
64.8577	26.03	-2.26	38935.100	1.5	193118.800	0.5	65.3804	25.03	-1.13	22862.300	3.0	175813.400	4.0
64.8618	20.02	-1.03	228413.950	3.0	382587.900	4.0	65.3817	30.02	-3.39	141327.000	4.0	294275.000	3.0
64.8639	16.05	-1.22	247452.000	2.5	401621.000	1.5	65.3832	9.02	-0.79	248261.400	0.5	401205.780	1.5
64.8696	25.03	-1.32	21280.700	4.0	175436.000	3.0	65.3854	8.02	-1.37	197086.700	1.0	350026.100	1.0
64.8751	30.02	-4.03	83500.300	2.0	237642.700	3.0	65.3979	16.03	0.16	71524.000	1.5	224434.000	1.5
64.8856	30.02	-1.96	140071.000	1.0	294188.300	2.0	65.3985	25.03	-1.25	25670.800	4.0	178579.500	4.0
64.8980	24.03	-2.61	21078.000	4.5	175166.000	3.5	65.4130	17.01	-1.87	696.100	1.0	153571.000	1.0
64.9001	28.02	-3.52	1360.700	3.0	155443.700	2.0	65.4206	19.03	-2.90	38546.000	0.0	191403.000	1.0
64.9088	26.02	-4.50	30716.200	2.0	184778.500	3.0	65.4218	25.03	-1.44	22959.100	4.0	175813.400	4.0
64.9092	26.02	-4.88	30716.200	2.0	184777.600	2.0	65.4307	26.03	-4.94	35251.500	2.5	188084.900	1.5
64.9094	26.02	-5.88	30716.200	2.0	184777.300	1.0	65.4420	16.03	-0.64	71524.000	1.5	224331.000	0.5
64.9132	26.02	-5.14	30725.800	1.0	184777.600	2.0	65.4456	26.03	-2.35	38893.400	0.5	191692.000	1.5
64.9134	26.02	-5.44	30725.800	1.0	184777.300	1.0	65.4464	30.02	-2.09	141327.000	4.0	294123.700	3.0
64.9137	25.03	-5.52	31385.200	3.0	185435.900	3.0	65.4512	26.03	-2.96	49539.900	2.5	202325.400	2.5
64.9317	20.04	-4.40	43841.000	0.0	197849.000	1.0	65.4602	30.02	-3.93	147921.500	2.0	300686.100	3.0
64.9323	30.02	-4.48	83500.300	2.0	237506.800	1.0	65.4620	26.03	-1.59	38931.600	2.5	191692.000	1.5
64.9431	30.02	-2.81	142483.300	2.0	296464.300	2.0	65.4635	26.03	-1.65	38935.100	1.5	191692.000	1.5
64.9462	30.02	-1.95	140071.000	1.0	294044.500	1.0	65.4643	26.03	-4.66	35329.900	1.5	188084.900	1.5
64.9481	10.03	-4.46	488215.000	0.5	642184.000	1.5	65.4767	28.02	-0.86	54657.900	4.0	207384.000	4.0
64.9502	30.02	-3.49	140071.000	1.0	294035.100	2.0	65.4848	30.02	-2.09	141327.000	4.0	294034.300	4.0
64.9509	25.03	-6.14	31473.500	2.0	185435.900	3.0	65.4854	26.02	-4.47	49576.900	1.0	202822.650	2.0
64.9627	30.02	-2.16	142483.300	2.0	296417.900	1.0	65.4871	25.03	-0.34	25877.700	5.0	178579.500	4.0
64.9673	17.01	-3.45	696.100	1.0	154619.600	2.0	65.4923	14.01	-1.33	287.320	1.5	152977.000	0.5
64.9681	26.02	-4.18	30857.800	3.0	184779.500	4.0	65.4960	26.03	-5.56	35403.800	0.5	188084.900	1.5
64.9681	17.01	-4.53	696.100	1.0	154617.800	1.0	65.4970	30.02	-0.82	141327.000	4.0	294005.800	5.0
64.9685	26.02	-4.73	30857.800	3.0	184778.500	3.0	65.5115	25.03	-1.19	22791.000	2.0	175436.000	3.0
64.9686	17.01	-5.87	696.100	1.0	154616.700	0.0	65.5137	28.02	-1.23	61339.200	4.0	213979.000	3.0
64.9689	26.02	-5.75	30857.800	3.0	184777.600	2.0	65.5159	25.03	-1.31	25440.400	3.0	178075.100	3.0
64.9694	23.03	-3.52	0.000	2.0	153918.700	3.0	65.5317	28.02	-1.27	55406.100	3.0	208004.000	2.0
64.9755	18.02	-2.02	33267.000	0.0	187171.120	1.0	65.5364	16.04	-1.46	81995.000	2.0	234582.000	1.0
64.9770	8.02	-5.13	43186.000	0.0	197086.700	1.0	65.5364	16.04	-0.28	81995.000	2.0	234582.000	2.0
64.9796	26.02	-5.75	30886.400	4.0	184780.800	5.0	65.5364	16.04	0.47	81995.000	2.0	234582.000	3.0
64.9802	26.02	-6.61	30886.400	4.0	184779.500	4.0	65.5417	17.01	-0.63	996.400	0.0	153571.000	1.0
64.9806	26.02	-7.79	30886.400	4.0	184778.500	3.0	65.5421	25.03	-1.54	22862.300	3.0	175436.000	3.0
64.9836	24.03	-4.45	20218.000	1.5	174103.000	2.5	65.5535	26.03	-5.07	35329.900	1.5	187877.100	0.5
65.0045	27.02	-2.32	1866.800	1.5	155702.400	1.5	65.5553	16.03	0.74	72071.000	2.5	224614.000	3.5
65.0122	26.03	-1.30	38775.600	3.5	192593.000	2.5	65.5554	26.03	-2.44	49539.900	2.5	202082.600	1.5
65.0297	24.03	-4.48	21078.000	4.5	174854.000	3.5	65.5837	25.03	-4.59	22959.100	4.0	175436.000	3.0
65.0432	16.05	-4.47	247420.000	1.5	401164.000	0.5	65.5853	26.03	-5.06	35403.800	0.5	187877.100	0.5
65.0628	30.02	-2.50	140071.000	1.0	293768.600	1.0	65.5897	16.03	0.09	72071.000	2.5	224534.000	2.5
65.0648	10.03	-4.45	488215.000	0.5	641908.000	0.5	65.5945	30.02	-3.09	144501.200	3.0	296953.000	2.0
65.0701	28.02												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
65.7990	28.02	-1.43	55406.100	3.0	207384.000	4.0	66.3569	28.02	-0.34	53703.700	5.0	204404.000	4.0
65.8054	30.02	-2.14	144501.200	3.0	296464.300	2.0	66.3654	17.01	-1.49	0.000	2.0	150681.000	2.0
65.8070	16.01	-4.32	0.000	1.5	151959.410	1.5	66.3702	16.03	-1.18	71524.000	1.5	222194.000	2.5
65.8102	30.02	-4.77	83500.300	2.0	235452.500	2.0	66.3769	28.02	-6.24	0.000	4.0	150654.900	3.0
65.8127	17.02	-4.11	0.000	1.5	151946.400	.5	66.3888	25.03	-0.54	22324.700	2.0	172952.600	3.0
65.8227	25.02	-1.70	43668.840	2.5	195592.090	1.5	66.3932	25.03	-1.69	25670.800	4.0	176288.600	5.0
65.8232	26.02	-4.69	50412.300	2.0	202334.390	1.0	66.3943	23.02	-1.30	11769.700	2.5	162385.110	3.5
65.8252	25.02	-2.08	43674.700	1.5	195592.090	1.5	66.3967	26.02	-8.40	1027.300	0.0	151637.300	1.0
65.8259	16.04	-1.16	82666.000	0.0	234582.000	1.0	66.4128	23.02	-1.35	12187.000	4.5	162760.280	4.5
65.8282	16.01	-4.52	0.000	1.5	151910.670	1.5	66.4160	23.02	-3.17	11769.700	2.5	162335.880	3.5
65.8329	9.02	-0.06	0.000	1.5	151899.700	2.5	66.4298	22.03	-1.73	80378.600	.5	230913.400	1.5
65.8415	17.02	-3.31	0.000	1.5	151879.900	1.5	66.4314	16.01	-1.34	0.000	1.5	150531.120	1.5
65.8456	26.02	-4.96	50412.300	2.0	202282.650	2.0	66.4424	28.02	-1.74	63472.600	2.0	213979.000	3.0
65.8466	26.03	-2.13	50049.200	1.5	20.917.300	.5	66.4462	30.02	-2.20	145966.600	3.0	296464.300	2.0
65.8551	17.02	-3.03	0.000	1.5	151848.600	2.5	66.4521	25.03	-5.14	21280.700	4.0	171765.000	4.0
65.8752	8.02	-0.91	187049.400	2.0	338851.500	3.0	66.4563	18.01	-0.87	0.000	.5	150474.900	1.5
65.8798	30.02	-1.88	142483.300	2.0	294275.000	3.0	66.4721	24.03	-8.14	14481.000	2.5	164920.000	3.5
65.8801	28.02	-1.48	55952.000	2.0	207743.000	3.0	66.4721	26.03	-3.59	52165.700	2.5	202604.700	3.5
65.8816	25.02	-1.82	43674.700	1.5	195462.260	.5	66.4726	17.01	-1.06	696.100	1.0	151134.000	1.0
65.9041	25.02	-1.59	43573.160	4.5	195308.790	4.5	66.4807	25.03	-2.19	21278.800	1.0	171698.300	2.0
65.9138	25.02	-2.48	43602.500	3.5	195315.780	2.5	66.4810	23.02	-3.40	11966.300	3.5	162385.110	3.5
65.9156	30.02	-2.47	145243.900	2.0	296953.000	2.0	66.4841	16.03	-0.17	72071.000	2.5	222483.000	1.5
65.9168	25.02	-2.60	43602.500	3.5	195308.790	4.5	66.4845	25.03	-0.55	25877.700	5.0	176288.600	5.0
65.9174	30.02	-2.15	142483.300	2.0	294188.300	2.0	66.4846	28.02	-0.45	62606.300	3.0	213017.000	2.0
65.9214	28.02	-1.66	56308.200	1.0	208004.000	2.0	66.5000	24.03	-1.88	15064.000	3.5	165440.000	4.5
65.9294	30.02	-3.65	145243.900	2.0	296921.300	3.0	66.5013	25.03	-1.75	25440.400	3.0	175813.400	4.0
65.9318	25.03	-2.90	21280.700	4.0	172952.600	3.0	66.5028	23.02	-1.42	11966.300	3.5	162335.880	3.5
65.9426	25.02	-2.53	43668.840	2.5	195315.780	2.5	66.5175	17.01	-5.13	11653.500	2.0	161989.800	1.0
65.9452	25.02	-3.50	43674.700	1.5	195315.780	2.5	66.5197	23.02	-1.61	11591.800	1.5	161923.280	2.5
65.9453	8.02	-1.05	187049.400	2.0	338690.340	2.0	66.5235	17.01	-1.30	696.100	1.0	151019.000	2.0
65.9455	30.02	-4.29	142483.300	2.0	294123.700	3.0	66.5247	26.02	-2.38	50184.900	2.0	200504.990	3.0
65.9592	30.02	-3.44	145243.900	2.0	296852.700	1.0	66.5379	25.03	-4.12	21474.800	5.0	171765.000	4.0
65.9671	25.03	-4.85	21280.700	4.0	172871.500	5.0	66.5521	16.01	-1.62	0.000	1.5	150258.200	.5
65.9773	23.03	-3.11	0.000	2.0	151677.300	2.0	66.5539	17.01	-3.79	11653.500	2.0	161907.700	2.0
65.9799	30.02	-2.68	142483.300	2.0	294044.500	1.0	66.5566	26.02	-2.15	50276.100	4.0	200524.120	5.0
65.9831	16.04	-1.19	83028.000	1.0	234582.000	2.0	66.5609	26.02	-3.64	50276.100	4.0	200514.460	4.0
65.9831	16.04	-1.28	83028.000	1.0	234582.000	1.0	66.5643	28.02	-1.69	62606.300	3.0	212837.000	4.0
65.9840	30.02	-4.66	142483.300	2.0	294035.100	2.0	66.5694	26.02	-2.26	50295.200	3.0	200514.460	4.0
65.9893	25.02	-2.08	43573.160	4.5	195112.810	3.5	66.5695	22.03	-1.97	80378.600	.5	230597.600	.5
65.9994	8.02	-1.27	187049.400	2.0	338565.870	1.0	66.5696	26.02	-6.07	436.200	3.0	150654.900	3.0
66.0021	25.02	-1.91	43602.500	3.5	195112.810	3.5	66.5736	26.02	-3.62	50295.200	3.0	200504.990	3.0
66.0076	28.02	-0.51	61339.200	4.0	212837.000	4.0	66.5787	23.02	-2.87	12187.000	4.5	162385.110	3.5
66.0166	30.02	-1.73	145243.900	2.0	296720.900	3.0	66.5852	25.02	-4.52	43573.160	4.5	193756.790	4.5
66.0286	7.01	-1.16	15316.200	2.0	166765.660	1.0	66.5949	25.03	-3.35	22791.000	2.0	172952.600	3.0
66.0288	26.03	-3.67	38775.600	3.5	190224.600	3.5	66.5958	26.03	-2.25	52165.700	2.5	202325.400	2.5
66.0310	25.02	-2.60	43668.840	2.5	195112.810	3.5	66.5982	25.02	-5.22	43602.500	3.5	193756.790	4.5
66.0343	25.03	-1.33	20654.200	0.0	172090.600	1.0	66.5985	23.02	-1.99	11769.700	2.5	161923.280	2.5
66.0384	23.03	-2.53	0.000	2.0	151427.000	1.0	66.6006	23.02	-3.38	12187.000	4.5	162335.880	3.5
66.0451	15.04	-1.66	304161.300	.5	455573.000	.5	66.6032	17.01	-3.16	11653.500	2.0	161796.500	3.0
66.0516	25.03	-3.43	21474.800	5.0	172871.500	5.0	66.6033	25.03	-0.73	25670.800	4.0	175813.400	4.0
66.0559	7.02	-1.63	145876.100	.5	297263.100	1.5	66.6056	17.01	-0.53	996.400	0.0	151134.000	1.0
66.0573	16.01	-5.10	0.000	1.5	151383.830	.5	66.6102	26.03	-3.72	38775.600	3.5	188902.700	3.5
66.0621	28.02	-0.74	62606.300	3.0	213979.000	3.0	66.6120	16.03	.19	72071.000	2.5	222194.000	2.5
66.0639	25.02	-2.03	43602.500	3.5	194971.150	2.5	66.6148	17.01	.05	696.100	1.0	150813.000	1.0
66.0925	16.03	-0.21	71180.000	.5	222483.000	1.5	66.6200	25.03	-2.65	21278.800	1.0	171383.900	1.0
66.0928	25.02	-2.22	43668.840	2.5	194971.150	2.5	66.6266	25.03	-2.03	22862.300	3.0	172952.600	3.0
66.0954	25.02	-2.81	43674.700	1.5	194971.150	2.5	66.6338	25.03	-1.39	22324.700	2.0	172398.700	2.0
66.0969	26.03	-4.07	38931.600	2.5	190224.600	3.5	66.6417	28.02	-0.53	54657.900	4.0	204714.000	3.0
66.1041	7.02	-0.94	145986.500	1.5	297263.100	1.5	66.6420	23.02	-2.07	1513.800	.5	161569.410	1.5
66.1052	7.02	-1.35	145876.100	.5	297150.200	.5	66.6451	24.03	-0.28	15414.000	.5	165440.000	4.5
66.1063	28.02	-0.85	63472.600	2.0	214744.000	2.0	66.6580	28.02	-0.53	63472.600	2.0	213492.000	1.0
66.1192	23.03	-2.26	325.400	3.0	151567.300	2.0	66.6633	9.03	-4.40	25234.400	2.0	175242.000	1.0
66.1196	30.02	-2.73	142483.300	2.0	293724.300	2.0	66.6655	9.03	-4.75	25234.400	2.0	175237.000	2.0
66.1240	26.03	-2.39	38775.600	3.5	190006.700	2.5	66.6684	25.03	-7.02	21280.700	4.0	171276.900	3.0
66.1262	25.02	-2.22	43668.840	2.5	194894.780	1.5	66.6686	25.03	-0.85	25440.400	3.0	175436.000	3.0
66.1286	30.02	-3.53	145243.900	2.0	296464.300	2.0	66.6686	26.02	-4.67	6974.400	0.0	219743.040	1.0
66.1288	25.02	-2.42	43674.700	1.5	194894.780	1.5	66.6696	25.03	-0.77	22959.100	4.0	172952.600	3.0
66.1339	26.03	-3.73	51396.300	3.5	202604.700	3.5	66.6734	17.01	-1.01	696.100	1.0	150681.000	2.0
66.1391	25.03	-3.83	21280.700	4.0	172477.200	4.0	66.6736	26.03	-0.41	52620.400	4.5	202604.700	3.5
66.1410	25.03	-1.70	21679.300	6.0	172871.500	5.0	66.6766	23.02	-1.97	11591.800	1.5	161569.410	1.5
66.1414	16.03	.46	950.200	1.5	152141.400	2.5	66.6795	26.03	-4.34	38931.600	2.5	188902.700	3.5
66.1462	25.02	-4.18	43668.840	2.5	194849.100	1.5	66.6808	17.02	-4.71	29812.800	.5	179781.000	.5
66.1477	16.03	-0.49	950.200	1.5	152127.100	1.5	66.6823	26.02	-6.56	34812.400	0.0	184777.300	1.0
66.1485	30.02	-4.07	142483.300	2.0	293658.400	3.0	66.6858	23.02	-3.14	11966.300	3.5	161923.280	2.5
66.1488	25.02	-2.55	43674.700	1.5	194849.100	1.5	66.6953	25.03	-1.96	25877.700	5.0	175813.400	4.0
66.1489	30.02	-2.78	145243.900	2.0	296417.900	1.0	66.7001	25.02	-6.20	43573.160	4.5	193498.070	3.5
66.1534	7.02	-1.65	145986.500	1.5	297150.200	.5	66.7006	25.03	-1.50	20654.200	0.0	170577.800	1.0
66.1664	17.01	-1.71	0.000	2.0	151134.000	1.0	66.7036	26.03	-1.86	52165.700	2.5	202082.600	1.5
66.1692	15.04	-1.36	304445.300	1.5	455573.000	.5	66.7040	26.02	-6.04	738.900	2.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
66.8302	25.02	-9.39	43602.500	3.5	193235.430	2.5	67.1386	7.01	-5.54	130.800	2.0	149076.520	2.0
66.8307	26.03	-6.60	52693.500	3.5	202325.400	2.5	67.1391	30.02	-1.50	145243.900	2.0	294188.300	2.0
66.8349	30.02	-1.69	144501.200	3.0	294123.700	3.0	67.1402	26.03	-4.43	38935.100	1.5	187877.100	1.5
66.8352	23.02	-3.39	11956.300	3.5	161588.040	3.5	67.1411	7.01	-1.16	0.000	0.0	148940.170	1.0
66.8383	25.03	-3.12	22862.300	3.0	172477.200	4.0	67.1451	30.02	-2.66	147921.500	2.0	296852.700	1.0
66.8415	25.03	-2.08	22791.000	2.0	172398.700	2.0	67.1480	26.02	-6.20	19404.800	2.0	168329.670	3.0
66.8496	17.02	-2.77	29905.600	1.5	179495.200	2.5	67.1505	30.02	-2.84	147498.600	1.0	296417.900	1.0
66.8505	25.03	-1.37	21278.800	1.0	170866.300	2.0	67.1530	23.02	-4.95	11966.300	3.5	160879.980	4.5
66.8565	23.02	-3.78	11591.800	1.5	161165.810	2.5	67.1539	23.02	-3.62	11769.700	2.5	160681.480	3.5
66.8599	25.02	-6.93	43668.840	2.5	193235.430	2.5	67.1542	10.03	-3.77	524676.000	1.5	673587.000	2.5
66.8625	25.02	-7.70	43674.700	1.5	193235.430	2.5	67.1557	25.02	-4.57	43668.840	2.5	192576.420	2.5
66.8694	17.01	-6.60	27877.800	0.0	177423.100	1.0	67.1559	25.03	-3.23	22791.000	2.0	171698.300	2.0
66.8698	28.02	-1.25	63472.600	2.0	213017.000	2.0	67.1579	25.03	-3.63	22862.300	3.0	171765.000	4.0
66.8733	25.03	-1.03	22862.300	3.0	172398.700	2.0	67.1584	25.02	-5.31	43674.700	1.5	192576.420	2.5
66.8744	25.02	-7.62	0.000	2.5	149533.980	1.5	67.1623	30.02	-3.78	147571.200	1.0	296464.300	2.0
66.8745	30.02	-2.16	144501.200	3.0	294035.100	2.0	67.1630	7.01	-1.28	48.700	1.0	148940.170	1.0
66.8748	30.02	-2.23	144501.200	3.0	294034.300	4.0	67.1683	30.02	-3.07	145243.900	2.0	294123.700	3.0
66.8780	17.03	-1.70	32547.000	0.0	182073.000	1.0	67.1713	14.02	-1.78	201597.730	1.0	201597.730	1.0
66.8815	25.03	-3.07	22959.100	4.0	172477.200	4.0	67.1773	7.01	-1.11	48.700	1.0	148908.590	0.0
66.8839	25.02	-7.39	0.000	2.5	149512.900	1.5	67.1824	26.02	-5.25	21462.200	4.0	170310.600	3.0
66.8869	24.03	-1.57	15414.000	4.5	164920.000	3.5	67.1832	30.02	-2.43	147571.200	1.0	296417.900	1.0
66.8915	26.03	-3.86	38931.600	2.5	188427.500	2.5	67.1856	28.02	-2.93	63472.600	2.0	212314.000	3.0
66.8930	26.03	-5.74	38935.100	1.5	188427.500	2.5	67.1861	23.02	-5.29	12187.000	4.5	161027.320	4.5
66.8941	26.03	-2.38	52835.300	1.5	202325.400	2.5	67.1880	25.03	-2.49	22862.300	3.0	171698.300	2.0
66.8949	26.03	-1.21	52837.100	2.5	202325.400	2.5	67.1957	25.02	-4.15	43573.160	4.5	192392.200	3.5
66.9100	30.02	-1.62	147498.600	1.0	296953.000	2.0	67.1993	25.03	-5.98	21474.800	5.0	170285.800	6.0
66.9112	16.01	-2.51	14884.800	2.5	164336.710	3.5	67.2001	7.01	-1.06	130.800	2.0	148940.170	1.0
66.9273	25.02	-9.75	43573.160	4.5	192989.050	5.5	67.2012	23.02	-4.79	11769.700	2.5	160576.620	3.5
66.9297	26.02	-3.54	50184.900	2.0	199595.300	3.0	67.2016	25.03	-2.99	22959.100	4.0	171765.000	3.5
66.9339	23.02	-1.20	12187.000	4.5	161588.040	3.5	67.2040	30.02	-2.07	145243.900	2.0	294044.500	1.0
66.9361	23.02	-6.25	11769.700	2.5	161165.810	2.5	67.2046	30.02	-3.22	147921.500	2.0	296720.900	3.0
66.9376	26.02	-2.61	50184.900	2.0	199577.710	2.0	67.2062	26.02	-3.30	20481.900	4.0	169277.600	4.0
66.9412	26.02	-6.89	50276.100	4.0	199660.840	5.0	67.2090	25.02	-6.28	43602.500	3.5	192392.200	3.5
66.9426	30.02	-1.79	147571.200	1.0	296953.000	2.0	67.2098	23.02	-3.96	11591.800	1.5	160379.640	2.5
66.9439	16.01	-5.52	14853.000	1.5	164231.780	2.5	67.2103	26.02	-5.64	738.900	2.0	149525.630	2.0
66.9447	30.02	-3.06	147498.600	1.0	296875.600	2.0	67.2215	28.02	-1.94	55952.000	2.0	204714.000	3.0
66.9456	28.02	-9.96	55952.000	2.0	205327.000	1.0	67.2247	28.02	-2.00	56308.200	1.0	205063.000	2.0
66.9462	25.03	-2.68	22324.700	2.0	171698.300	2.0	67.2292	14.02	-1.43	52853.280	1.0	201598.280	2.0
66.9550	30.02	-1.76	147498.600	1.0	296852.700	1.0	67.2294	14.02	-1.91	52853.280	1.0	201597.730	1.0
66.9582	16.01	-8.86	14884.800	2.5	164231.780	2.5	67.2359	23.02	-6.61	11591.800	1.5	160321.890	2.5
66.9669	26.02	-2.31	50276.100	4.0	199603.610	4.0	67.2364	26.02	-2.67	20051.100	6.0	168780.100	5.0
66.9706	26.02	-3.48	50276.100	4.0	199595.300	3.0	67.2389	25.02	-6.81	43668.840	2.5	192392.200	3.5
66.9725	20.03	-4.43	3115.000	5	152430.000	5	67.2422	18.01	-3.70	1431.410	1.5	150147.620	2.5
66.9753	26.02	-4.50	69695.730	4.0	219004.530	4.0	67.2426	23.02	-3.99	11966.300	3.5	160681.480	3.5
66.9755	26.02	-3.51	50295.200	3.0	199603.610	4.0	67.2510	25.02	-6.18	43668.840	2.5	192365.520	1.5
66.9757	28.02	-9.99	55406.100	3.0	204714.000	3.0	67.2527	23.02	-3.56	12187.000	4.5	160879.980	4.5
66.9761	25.02	-5.53	43573.160	4.5	192880.160	3.5	67.2536	25.02	-4.92	43674.700	1.5	192365.520	1.5
66.9773	30.02	-1.81	147571.200	1.0	296875.600	2.0	67.2553	25.02	-4.92	43674.700	1.5	192365.520	1.5
66.9792	26.02	-2.49	50295.200	3.0	199595.300	3.0	67.2653	29.02	-1.61	0.000	2.5	148562.900	2.5
66.9794	25.03	-1.32	22791.000	2.0	172090.800	1.0	67.2810	23.02	-5.13	11513.800	5	160144.260	1.5
66.9797	25.03	-1.65	21278.800	1.0	170577.800	1.0	67.2857	18.01	-5.52	0.000	5	148620.070	1.5
66.9811	16.01	-6.16	14884.800	2.5	164180.630	3.5	67.2899	26.02	-4.83	21699.900	3.0	170310.600	3.0
66.9833	25.03	-4.18	22791.000	2.0	172081.900	3.0	67.2901	23.02	-3.68	11966.300	3.5	160576.620	3.5
66.9871	26.02	-3.52	50295.200	3.0	199577.710	2.0	67.2902	23.02	-4.35	11769.700	2.5	160379.640	2.5
66.9875	30.02	-2.44	147571.200	1.0	296852.700	1.0	67.2918	25.03	-3.79	21679.300	6.0	170285.800	6.0
66.9885	25.02	-7.51	43668.840	2.5	192948.290	1.5	67.2961	8.01	-6.65	40466.900	1.5	189068.370	1.5
66.9893	25.02	-4.39	43602.500	3.5	192880.160	3.5	67.2968	8.01	-1.34	40468.400	5	189068.370	1.5
66.9911	25.02	-7.13	43674.700	1.5	192948.290	1.5	67.2978	26.02	-6.42	932.400	1.0	149525.630	2.0
66.9957	17.02	-1.08	29812.800	5	179076.100	1.5	67.2980	25.03	-2.60	22791.000	2.0	171383.900	1.0
67.0029	26.03	-1.35	52835.300	1.5	202082.600	1.5	67.3036	9.00	-1.20	404.100	1.5	148984.500	5
67.0037	26.03	-8.85	52837.100	2.5	202082.600	1.5	67.3051	26.02	-6.87	436.200	3.0	149013.360	4.0
67.0068	13.02	-2.21	53682.930	5	202921.600	5	67.3082	25.02	-4.28	43602.500	3.5	192172.890	2.5
67.0087	25.02	-7.76	0.000	2.5	149234.400	2.5	67.3083	10.03	-3.37	525017.000	2.5	673587.000	2.5
67.0138	30.02	-2.55	144501.200	3.0	293724.300	2.0	67.3091	25.02	-8.57	0.000	2.5	148568.400	2.5
67.0153	25.03	-3.19	22862.300	3.0	172081.900	3.0	67.3143	17.02	-6.78	29812.800	5	178369.700	5
67.0190	25.02	-5.09	43668.840	2.5	192880.160	3.5	67.3163	23.02	-5.03	11591.800	1.5	160144.260	1.5
67.0243	23.02	-1.36	11966.300	3.5	161165.810	2.5	67.3164	23.02	-7.55	11769.700	2.5	160321.890	2.5
67.0279	26.03	-5.58	38893.400	5	188084.900	1.5	67.3207	30.02	-2.11	147921.500	2.0	296464.300	2.0
67.0296	7.01	-2.08	0.000	0.0	149187.800	1.0	67.3212	25.03	-1.88	22324.700	2.0	170866.300	2.0
67.0374	17.02	-9.37	29905.600	1.5	179076.100	1.5	67.3289	30.02	-3.73	145243.900	2.0	293768.600	1.0
67.0431	28.02	-1.25	56308.200	1.0	205466.000	1.0	67.3382	25.02	-5.50	43668.840	2.5	192172.890	2.5
67.0434	30.02	-2.39	144501.200	3.0	293658.400	3.0	67.3409	25.02	-8.05	43674.700	1.5	192172.890	2.5
67.0451	26.03	-4.19	38931.600	2.5	188084.900	1.5	67.3417	30.02	-2.76	147921.500	2.0	296417.900	1.0
67.0467	26.03	-4.21	38935.100	1.5	188084.900	1.5	67.3426	23.02	-2.34	12187.000	4.5	160681.480	3.5
67.0515	7.01	-2.19	48.700	1.0	149187.800	1.0	67.3430	23.03	-1.21	144273.100	2.0	292766.700	2.0
67.0560	10.02	-4.65	55750.000	0.0	204879.000	1.0	67.3465	25.03	-4.95	22791.000	2.0	171276.900	3.0
67.0588	25.03	-3.05	22959.100	4.0	172081.900	3.0	67.3471	14.02	-1.17	53115.010	2.0	201599.480	3.0
67.0641	28.02	-1.04	55952.000	2.0	205063.000	2.0	67.3477	14.02	-1.92	53115.010	2.0	201598.280	2.0
67.0724	25.02	-5.36	43573.160	4.5	192665.800	4.5							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
67.4578	25.02	-5.53	43674.700	1.5	191915.430	.5	68.0050	20.02	-1.30	203851.950	1.0	350900.040	2.0
67.4665	30.02	-4.63	145966.600	3.0	294188.300	2.0	68.0057	25.03	-1.57	53286.700	3.0	200333.200	3.0
67.4680	25.03	-8.08	21280.700	4.0	169499.200	5.0	68.0102	25.03	-3.82	25440.400	3.0	172477.200	4.0
67.4871	26.02	-6.28	738.900	2.0	148915.300	1.0	68.0110	30.02	-2.92	137866.400	2.0	284901.500	2.0
67.4959	30.02	-1.50	145966.600	3.0	294123.700	3.0	68.0156	24.03	-1.35	14481.000	2.5	161506.000	2.5
67.5017	23.03	-3.75	144273.100	2.0	292417.600	3.0	68.0235	24.03	-2.45	15064.000	3.5	162072.000	3.5
67.5105	24.03	-4.86	14185.000	1.5	162310.000	2.5	68.0238	26.03	-3.48	49539.900	2.5	196547.300	3.5
67.5217	16.02	-2.67	297.200	1.0	148397.800	1.0	68.0255	25.03	-4.46	53286.700	3.0	200290.400	4.0
67.5242	24.03	-3.01	14215.000	1.5	162310.000	2.5	68.0278	26.02	-2.61	20300.800	5.0	167299.600	5.0
67.5332	25.03	-2.63	22791.000	2.0	170866.300	2.0	68.0301	25.03	-2.17	25877.700	5.0	172871.500	5.0
67.5363	30.02	-1.93	145966.600	3.0	294035.100	2.0	68.0365	25.03	-1.36	53212.300	4.0	200192.200	5.0
67.5367	30.02	-3.35	145966.600	3.0	294034.300	4.0	68.0465	25.03	-4.30	25440.400	3.0	172398.700	2.0
67.5429	20.02	-2.68	225826.220	2.0	373880.370	3.0	68.0502	30.02	-3.88	137866.400	2.0	284816.800	1.0
67.5476	23.03	-1.56	325.400	3.0	148369.200	4.0	68.0610	24.03	-1.05	14072.000	.5	160999.000	1.5
67.5564	25.03	-4.88	21474.800	5.0	169499.200	5.0	68.0634	23.03	-1.25	734.700	4.0	147656.500	3.0
67.5601	29.01	-1.56	0.000	0.0	148016.300	1.0	68.0679	16.02	.71	832.500	2.0	147744.540	3.0
67.5657	25.03	-1.51	22862.300	3.0	170866.300	2.0	68.0699	17.01	-5.42	27877.800	0.0	174785.700	1.0
67.5660	4.02	.76	983357.000	0.0	1131360.434	0.0	68.0703	9.00	-1.66	0.000	.5	146906.900	1.5
67.5676	10.03	-1.76	524676.000	1.5	672676.000	.5	68.0705	26.02	-4.92	20300.800	5.0	167207.300	4.0
67.5754	26.02	-6.09	932.400	1.0	148915.300	1.0	68.0749	26.02	-4.40	738.900	2.0	147635.950	3.0
67.6125	9.03	-5.23	0.000	0.0	147901.600	1.0	68.0777	26.02	-7.94	0.000	4.0	146891.040	3.0
67.6187	26.02	-6.90	1027.300	0.0	148915.300	1.0	68.0848	26.02	-4.06	738.900	2.0	147614.650	2.0
67.6192	30.02	-3.32	137866.400	2.0	285753.500	2.0	68.0886	26.02	-4.87	21462.200	4.0	168329.670	3.0
67.6329	30.02	-2.36	137866.400	2.0	285723.500	3.0	68.0928	16.02	.28	832.500	2.0	147690.990	2.0
67.6371	26.02	-6.61	20481.900	4.0	168329.670	3.0	68.0943	23.03	-1.69	0.000	2.0	146855.100	3.0
67.6457	24.03	-2.52	14481.000	2.5	162310.000	2.5	68.0973	16.02	.23	297.200	1.0	147146.000	2.0
67.6499	25.03	-2.99	21679.300	6.0	169499.200	5.0	68.0973	16.02	-1.76	297.200	1.0	147146.000	2.0
67.6515	29.02	-2.25	0.000	2.5	147816.400	1.5	68.1094	30.02	-4.74	137866.400	2.0	284689.000	1.0
67.6519	26.02	-3.65	21462.200	4.0	169277.600	4.0	68.1117	26.02	-4.36	738.900	2.0	147556.450	1.0
67.6563	29.02	-1.17	0.000	2.5	147805.900	3.5	68.1117	26.02	-3.82	20481.900	4.0	167299.600	5.0
67.6563	24.03	-2.00	37062.000	2.5	184868.000	3.5	68.1127	27.02	-4.16	0.000	4.5	146815.600	3.5
67.6587	20.02	-2.34	225826.220	2.0	373626.850	2.0	68.1134	24.03	-2.61	14185.000	1.5	160999.000	1.5
67.6641	26.02	-5.29	20688.400	1.0	168477.360	1.0	68.1153	23.03	-4.41	325.400	3.0	147135.200	2.0
67.6650	25.03	-1.51	22791.000	2.0	170577.800	1.0	68.1169	25.03	-2.94	25670.800	4.0	172477.200	4.0
67.6784	30.02	-3.29	145966.600	3.0	293724.300	2.0	68.1233	26.03	-3.09	49539.900	2.5	196332.600	2.5
67.6899	26.02	-5.80	20688.400	1.0	168420.990	2.0	68.1273	24.03	-1.93	14215.000	1.5	160999.000	1.5
67.6930	30.02	-2.99	137866.400	2.0	285592.100	2.0	68.1410	26.03	-7.35	47032.500	5.5	193787.000	4.5
67.6941	28.02	-1.15	14031.600	2.0	161755.000	3.0	68.1431	17.02	-4.82	0.000	1.5	146749.900	2.5
67.6944	26.02	-6.63	932.400	1.0	148655.000	0.0	68.1494	16.02	.13	0.000	0.0	146736.540	1.0
67.6998	10.03	-1.91	524391.000	.5	672102.000	1.5	68.1494	16.02	-1.86	0.000	0.0	146736.540	1.0
67.7080	24.03	-2.57	14072.000	.5	161765.000	1.5	68.1542	10.03	-1.98	524676.000	1.5	671402.000	2.5
67.7082	13.02	-3.13	53682.930	.5	201375.560	1.5	68.1545	26.02	-2.24	20481.900	4.0	167207.300	4.0
67.7086	30.02	-2.14	145966.600	3.0	293658.400	3.0	68.1546	26.02	-3.83	436.200	3.0	147161.360	4.0
67.7090	5.02	.59	48381.000	0.0	196071.854	0.0	68.1565	26.02	-5.62	21699.900	3.0	168420.990	2.0
67.7138	26.02	-4.64	19404.800	2.0	167085.120	3.0	68.1580	16.02	-4.42	832.500	2.0	147550.320	1.0
67.7156	9.03	-3.78	225.200	1.0	147901.600	1.0	68.1710	25.03	-2.25	31385.200	3.0	178075.100	3.0
67.7215	9.03	-.89	225.200	1.0	147888.900	2.0	68.1711	30.02	-2.35	147498.600	1.0	294188.300	2.0
67.7248	23.03	-2.03	0.000	2.0	147656.500	3.0	68.1746	26.02	-4.27	932.400	1.0	147614.650	2.0
67.7300	23.03	-1.57	144273.100	2.0	291918.100	2.0	68.1747	24.03	-2.31	14317.000	.5	160999.000	1.5
67.7336	30.02	-3.93	137866.400	2.0	285503.700	1.0	68.1858	24.03	-5.55	15414.000	4.5	162072.000	3.5
67.7342	26.02	-4.27	0.000	4.0	147635.950	3.0	68.1900	23.03	-3.06	146117.700	1.0	292766.700	2.0
67.7348	23.03	-.38	734.700	4.0	148369.200	4.0	68.1919	26.03	-3.70	49539.900	2.5	196184.900	1.5
67.7520	26.02	-5.30	19404.800	2.0	167002.000	2.0	68.1924	17.04	-1.63	0.000	.5	146464.000	.5
67.7546	24.03	-.91	14481.000	2.5	162072.000	3.5	68.1935	25.03	-4.05	25440.400	3.0	172081.900	3.0
67.7599	24.03	-.99	14185.000	1.5	161765.000	1.5	68.1990	26.02	-5.92	21699.900	3.0	168329.670	3.0
67.7609	26.02	-6.17	21699.900	3.0	169277.600	4.0	68.2016	26.02	-4.96	932.400	1.0	147556.450	1.0
67.7619	20.02	-.89	225826.220	2.0	373401.870	3.0	68.2034	26.02	-6.75	21857.200	2.0	168477.360	1.0
67.7635	13.01	-2.92	0.000	0.0	147572.000	1.0	68.2049	30.02	-2.13	147571.200	1.0	294188.300	2.0
67.7639	30.02	-.68	0.000	0.0	147571.200	1.0	68.2076	25.03	-5.47	21278.800	1.0	167890.100	2.0
67.7666	16.02	-3.14	832.500	2.0	148397.800	1.0	68.2113	26.02	-1.31	20481.900	4.0	167085.120	3.0
67.7695	25.03	-7.57	21280.700	4.0	168839.700	4.0	68.2121	25.03	-1.28	31473.500	2.0	178075.100	3.0
67.7735	16.02	-.57	0.000	0.0	147550.320	1.0	68.2131	25.03	-3.00	25877.700	5.0	172477.200	4.0
67.7736	24.03	-2.44	14215.000	1.5	161765.000	1.5	68.2160	26.03	-2.90	56011.600	4.5	202604.700	3.5
67.7751	20.02	-3.80	225333.560	3.0	373880.370	3.0	68.2170	29.02	-4.28	2071.800	1.5	148662.900	2.5
67.7861	23.03	-2.19	144273.100	2.0	291796.000	1.0	68.2235	13.01	-2.90	0.000	0.0	146577.000	1.0
67.7910	25.03	-3.97	25440.400	3.0	172952.600	3.0	68.2253	6.01	-4.22	74930.100	2.5	221503.330	3.5
67.7952	18.01	-6.37	0.000	.5	147503.020	1.5	68.2297	26.02	-6.52	21857.200	2.0	168420.990	2.0
67.7973	30.02	-.36	0.000	0.0	147498.600	1.0	68.2380	30.02	-2.31	147498.600	1.0	294044.500	1.0
67.8058	14.02	-1.72	82884.410	1.0	230364.460	0.0	68.2407	25.03	-3.55	22959.100	4.0	169499.200	5.0
67.8155	13.02	-3.79	53916.600	1.5	201375.560	1.5	68.2424	30.02	-4.12	147498.600	1.0	294035.100	2.0
67.8156	13.02	-2.84	53916.600	1.5	201375.200	2.5	68.2450	6.01	-1.52	74930.100	2.5	221460.880	2.5
67.8205	24.03	-.89	14317.000	.5	161765.000	1.5	68.2456	23.03	-4.50	325.400	3.0	146855.100	3.0
67.8306	10.03	-1.97	524676.000	1.5	672102.000	1.5	68.2458	26.02	-4.84	1027.300	0.0	147556.450	1.0
67.8376	18.01	-.30	1431.410	1.5	148842.370	2.5	68.2462	6.01	-4.37	74932.620	1.5	221460.880	2.5
67.8396	26.02	-4.26	0.000	4.0	147406.140	5.0	68.2475	17.02	-5.43	0.000	1.5	146525.600	1.5
67.8455	16.02	.16	297.200	1.0	147690.990	2.0	68.2510	24.03	-1.98	14481.000	2.5	160999.000	1.5
67.8588	25.03	-3.07	21474.800	5.0	168839.700	4.0	68.2581	9.00	-2.39	404.100	1.5	146906.900	1.5
67.8642	6.01	-2.49	74932.620	1.5	222285.700	.5	68.2587	9.00	-1.41	404.100	1.5	146905.600	2.5
67.8743	23.03	-1.27	325.400	3.0	147656.500	3.0	68.2632	20.02	-4.65	227388.560	2.0	373880.370	3.0
67.8754	6.01	-2.23											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
68.3724	25.03	-3.75	25440.400	3.0	171698.300	2.0	68.7603	30.02	-2.38	140071.000	1.0	285503.700	1.0
68.3786	25.03	-3.87	31385.200	3.0	177629.800	2.0	68.7635	25.03	-4.53	25440.400	3.0	170866.300	2.0
68.3815	20.02	-1.75	227388.560	2.0	373626.850	2.0	68.7671	26.02	-2.74	20300.800	5.0	165719.200	4.0
68.3831	10.03	-2.71	525017.000	2.5	671252.000	3.5	68.7769	28.02	-4.69	62606.300	3.0	208004.000	2.0
68.3874	30.02	-2.97	147498.600	1.0	293724.300	2.0	68.7828	26.02	-2.11	21699.900	3.0	167085.120	3.0
68.3984	30.02	-3.03	147921.500	2.0	294123.700	3.0	68.7901	26.02	-7.42	24940.900	4.0	170310.600	3.0
68.4007	30.02	-2.87	147571.200	1.0	293768.600	1.0	68.7915	23.03	-2.17	146429.300	2.0	291796.000	1.0
68.4018	24.03	-3.38	14317.000	.5	160512.000	.5	68.7927	27.02	-4.33	1451.300	2.5	146815.600	3.5
68.4019	20.02	-.92	227432.110	1.0	373626.850	2.0	68.7980	29.02	-.46	0.000	2.5	145353.000	1.5
68.4199	25.03	-2.27	31473.500	2.0	177629.800	2.0	68.8151	17.01	.35	696.100	1.0	146013.000	2.0
68.4214	30.02	-2.67	147571.200	1.0	293724.300	2.0	68.8194	14.03	-1.67	160374.410	2.5	305682.270	1.5
68.4219	26.02	-5.23	738.900	2.0	146891.040	3.0	68.8200	14.03	-2.62	160375.600	1.5	305682.270	1.5
68.4292	26.02	-1.15	20051.100	6.0	166187.500	6.0	68.8221	26.02	-2.59	21699.900	3.0	167002.000	2.0
68.4295	26.03	-2.61	50049.200	1.5	196184.900	1.5	68.8315	23.03	-2.27	147135.200	2.0	292417.600	3.0
68.4332	24.03	-1.59	14185.000	1.5	160313.000	2.5	68.8395	14.03	-1.92	160375.600	1.5	305641.100	.5
68.4355	30.02	-3.93	147921.500	2.0	294044.500	1.0	68.8396	18.03	-.54	21090.700	1.5	166356.000	1.5
68.4367	26.02	-5.92	20300.800	5.0	166421.330	4.0	68.8473	24.03	-.93	15064.000	3.5	160313.000	2.5
68.4367	23.03	-.42	734.700	4.0	146855.100	3.0	68.8521	23.02	-2.34	16330.500	1.5	161569.410	1.5
68.4380	23.03	-.37	0.000	2.0	146117.700	1.0	68.8528	26.02	-1.27	20481.900	4.0	165719.200	4.0
68.4399	30.02	-2.76	147921.500	2.0	294035.100	2.0	68.8545	20.02	-.67	225826.220	2.0	371059.950	3.0
68.4418	27.02	-3.94	841.200	3.5	146950.700	2.5	68.8573	26.02	-2.46	21857.200	2.0	167085.120	3.0
68.4444	23.03	-.57	325.400	3.0	146429.300	2.0	68.8642	23.02	-1.79	16374.700	2.5	161588.040	3.5
68.4472	24.03	-.87	14215.000	1.5	160313.000	2.5	68.8644	20.02	-3.12	228413.950	3.0	373626.850	2.0
68.4490	25.03	-3.44	25670.800	4.0	171765.000	4.0	68.8649	15.03	.10	158138.200	2.0	303350.000	3.0
68.4596	18.01	-4.70	1431.410	1.5	147503.020	1.5	68.8730	23.02	-3.29	16374.700	2.5	161569.410	1.5
68.4622	25.02	-6.09	0.000	2.5	146066.070	1.5	68.8776	13.01	-2.96	0.000	0.0	145185.000	1.0
68.4662	20.02	-1.78	204842.640	2.0	350900.040	2.0	68.8790	26.02	-5.62	436.200	3.0	145618.390	2.0
68.4701	25.03	-1.47	31580.700	1.0	177629.800	2.0	68.8856	26.02	-2.94	25142.400	3.0	170310.600	3.0
68.4721	28.02	-3.54	61339.200	4.0	207384.000	4.0	68.8933	17.04	-.49	1492.000	1.5	146644.000	.5
68.4840	25.03	-3.42	21280.700	4.0	167300.300	3.0	68.8938	26.03	-3.46	51396.300	3.5	196547.300	3.5
68.4842	23.02	-2.57	15550.300	.5	161569.410	1.5	68.8967	26.02	-2.51	21857.200	2.0	167002.000	2.0
68.4856	26.02	-1.14	20481.900	4.0	166498.000	3.0	68.9006	28.02	-3.84	62606.300	3.0	207743.000	3.0
68.4869	20.02	-4.90	227388.560	2.0	373401.870	3.0	68.9007	18.03	.34	21219.500	2.5	166356.000	1.5
68.4871	17.01	-.57	0.000	2.0	146013.000	2.0	68.9131	23.03	-1.79	147656.500	3.0	292766.700	2.0
68.4883	23.02	-3.43	16374.700	2.5	162385.110	3.5	68.9160	30.02	-2.93	137866.400	2.0	282970.600	3.0
68.4932	18.03	-6.37	0.000	1.5	146000.000	2.5	68.9184	25.03	-3.54	22791.000	2.0	167890.100	2.0
68.4980	23.02	-2.85	15579.800	1.5	161569.410	1.5	68.9186	30.02	-3.60	140654.800	3.0	285753.500	2.0
68.4986	23.03	-1.71	146429.300	2.0	292417.600	3.0	68.9211	28.02	-1.44	16661.600	2.0	161755.000	3.0
68.5038	25.03	-3.97	22862.300	3.0	168839.700	4.0	68.9254	30.02	-2.52	137866.400	2.0	282950.700	2.0
68.5052	27.02	-3.87	841.200	3.5	146815.600	3.5	68.9256	27.02	-4.92	1866.800	1.5	146950.700	2.5
68.5114	23.02	-3.45	16374.700	2.5	162335.880	3.5	68.9329	30.02	-2.56	140654.800	3.0	285723.500	3.0
68.5139	29.01	-1.48	0.000	0.0	145955.700	1.0	68.9356	23.03	-1.87	146855.100	3.0	291918.100	2.0
68.5169	23.02	-2.47	16810.900	4.5	162760.280	4.5	68.9472	26.02	-4.48	0.000	4.0	145038.610	3.0
68.5216	26.02	-4.54	20481.900	4.0	166421.330	4.0	68.9485	26.02	-3.92	21462.200	4.0	166498.000	3.0
68.5228	20.02	-.61	204842.640	2.0	350779.470	3.0	68.9523	25.03	-3.91	22862.300	3.0	167890.100	2.0
68.5300	26.02	-1.53	20300.800	5.0	166222.200	4.0	68.9600	20.02	-.50	228413.950	3.0	373425.510	4.0
68.5302	18.03	-4.80	0.000	1.5	145921.000	1.5	68.9604	26.03	-3.84	57594.000	3.5	202604.700	3.5
68.5312	10.03	-3.33	524676.000	1.5	670595.000	2.5	68.9713	20.02	-1.90	228413.950	3.0	373401.870	3.0
68.5346	23.03	-2.16	146855.100	3.0	292766.700	2.0	68.9766	15.03	-.78	158138.200	2.0	303115.000	2.0
68.5382	16.02	-.73	832.500	2.0	146736.540	1.0	68.9771	25.03	-5.41	22324.700	2.0	167300.300	3.0
68.5382	16.02	-.75	832.500	2.0	146736.540	1.0	68.9783	30.02	-1.35	137866.400	2.0	282839.500	3.0
68.5396	29.01	-2.15	0.000	0.0	145901.100	1.0	68.9805	26.02	-3.61	0.000	4.0	144968.500	4.0
68.5396	24.03	-2.35	36490.000	3.5	182391.000	4.5	68.9850	26.02	-6.31	21462.200	4.0	166421.330	4.0
68.5456	26.02	-2.12	20051.100	6.0	165939.470	5.0	68.9936	20.02	-4.35	226333.560	3.0	371274.480	2.0
68.5461	25.03	-2.86	25877.700	5.0	171765.000	4.0	68.9945	13.01	-2.31	0.000	0.0	144939.100	1.0
68.5463	26.02	-2.52	20300.800	5.0	166187.500	6.0	68.9954	30.02	-3.67	140654.800	3.0	285592.100	2.0
68.5486	24.03	-2.80	15064.000	3.5	160946.000	3.5	68.9958	26.03	-4.05	51396.300	3.5	196332.600	2.5
68.5492	25.03	-3.48	22959.100	4.0	168839.700	4.0	69.0165	18.02	-3.50	0.000	2.0	144892.950	3.0
68.5542	9.03	-1.57	519539.000	1.0	665409.000	2.0	69.0198	18.02	-2.80	0.000	2.0	144885.970	2.0
68.5650	30.02	-2.91	147921.500	2.0	293768.600	1.0	69.0204	26.03	-2.53	57720.000	4.5	202604.700	3.5
68.5695	26.02	-1.90	21462.200	4.0	167299.600	5.0	69.0212	18.02	-3.09	0.000	2.0	144882.930	1.0
68.5699	25.03	-4.17	25440.400	3.0	171276.900	3.0	69.0229	26.02	-5.05	738.900	2.0	145618.390	2.0
68.5721	24.03	-1.28	14481.000	2.5	160313.000	2.5	69.0231	24.03	-2.12	14481.000	2.5	159360.000	3.5
68.5858	30.02	-4.63	147921.500	2.0	293724.300	2.0	69.0249	29.02	-.58	0.000	2.5	144875.200	1.5
68.5869	23.03	-1.71	146117.700	1.0	291918.100	2.0	69.0256	8.01	-4.62	40466.900	1.5	185340.680	1.5
68.5887	18.01	-4.28	1431.410	1.5	147227.970	.5	69.0336	16.05	-1.23	401164.000	.5	546021.000	1.5
68.5953	23.02	-.88	16977.600	5.5	162760.280	4.5	69.0402	26.02	-4.85	0.000	4.0	144843.240	5.0
68.6129	26.02	-2.15	21462.200	4.0	167207.300	4.0	69.0439	23.02	-2.07	16330.500	1.5	161165.810	2.5
68.6132	29.02	-3.13	2071.800	1.5	147816.400	1.5	69.0462	30.02	-2.18	140071.000	1.0	284901.500	2.0
68.6152	26.02	-3.45	20481.900	4.0	166222.200	4.0	69.0523	25.02	-8.27	0.000	2.5	144817.680	3.5
68.6168	30.02	-3.37	147921.500	2.0	293658.400	3.0	69.0526	6.02	-.80	102351.000	0.0	247168.139	0.0
68.6415	6.01	-.91	74930.100	2.5	220614.510	2.5	69.0570	24.03	-4.28	15064.000	3.5	159872.000	4.5
68.6427	6.01	-2.06	74932.620	1.5	220614.510	2.5	69.0608	23.02	-4.23	15579.800	1.5	160379.640	2.5
68.6444	23.03	-1.37	146117.700	1.0	291796.000	1.0	69.0617	25.02	-3.94	21699.900	3.0	166498.000	3.0
68.6476	6.01	-2.06	74930.100	2.5	220601.530	1.5	69.0650	23.02	-2.63	16374.700	2.5	161165.810	2.5
68.6488	6.01	-1.11	74932.620	1.5	220601.530	1.5	69.0653	26.02	-9.76	21462.200	4.0	166252.740	3.0
68.6489	18.01	-2.12	0.000	.5	145668.800	1.5	69.0677	30.02	-1.97	137866.400	2.0	282651.800	1.0
68.6608	25.02	-5.86	0.000	2.5	145643.450	2.5	69.0689	23.03	-2.15	147135.200	2.0	291918.100	2.0
68.6631	26.02	-1.16	20300.800	5.0	165939.470	5.0	69.0700	14.02	-2.17	82884.410			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
69.1704	26.02	-5.55	0.000	4.0	144570.530	3.0	69.5231	24.03	-3.64	15064.000	3.5	158901.000	2.5
69.1733	23.02	-4.48	15579.800	1.5	160144.260	1.5	69.5243	25.03	-1.42	53260.700	2.0	197095.400	1.0
69.1887	26.02	-4.26	436.200	3.0	144968.500	4.0	69.5257	26.02	-4.25	738.900	2.0	144570.530	3.0
69.1891	28.02	-4.47	63472.600	2.0	208004.000	2.0	69.5263	17.02	-4.37	29905.600	1.5	173736.000	2.5
69.1935	26.02	-2.60	21699.900	3.0	166222.200	4.0	69.5273	25.03	-6.09	25670.800	4.0	169499.200	5.0
69.1997	25.03	-4.84	22791.000	2.0	167300.300	3.0	69.5344	23.02	-4.02	16330.500	1.5	160144.260	1.5
69.2145	20.02	-1.81	225826.220	2.0	370304.540	2.0	69.5345	16.01	-1.01	14853.000	1.5	158666.450	1.5
69.2150	26.02	-3.10	21462.200	4.0	165939.470	5.0	69.5499	16.01	-1.81	14884.800	2.5	158666.450	1.5
69.2214	24.03	-2.92	14072.000	5	158536.000	1.5	69.5538	18.02	-4.27	1112.400	1.0	144885.970	2.0
69.2243	24.03	-2.81	15414.000	4.5	159872.000	4.5	69.5553	18.02	-3.38	1112.400	1.0	144882.930	1.0
69.2339	25.03	-3.45	22862.300	3.0	167300.300	3.0	69.5558	23.02	-4.93	16374.700	2.5	160144.260	1.5
69.2381	23.02	-6.98	16810.900	4.5	161240.020	5.5	69.5576	23.02	-3.12	16810.900	4.5	160576.620	3.5
69.2386	25.03	-3.33	31385.200	3.0	175813.400	4.0	69.5590	26.02	-4.42	738.900	2.0	144501.740	2.0
69.2425	24.03	-2.69	14481.000	2.5	158901.000	2.5	69.5755	26.03	-4.85	49539.900	2.5	193258.700	1.5
69.2468	16.05	-7.95	401621.000	1.5	546032.000	2.5	69.5829	13.02	-1.81	0.000	5	143713.500	1.5
69.2482	25.03	-4.02	25877.700	5.0	170285.800	6.0	69.5845	26.03	-1.83	52837.100	2.5	196547.300	3.5
69.2521	16.05	-1.90	401621.000	1.5	546021.000	1.5	69.5987	28.02	-3.71	2269.600	2.0	145950.500	1.0
69.2538	30.02	-4.84	141327.000	4.0	285723.500	3.0	69.5989	26.02	-4.94	436.200	3.0	144116.640	3.0
69.2576	30.02	-1.27	137866.400	2.0	282254.900	1.0	69.6005	27.02	-3.23	0.000	4.5	143677.100	3.5
69.2609	26.03	-2.83	52165.700	2.5	196547.300	3.5	69.6015	11.04	-7.15	73221.000	5	216896.000	1.5
69.2703	24.03	-1.56	21078.000	4.5	165440.000	4.5	69.6033	20.02	-4.03	227388.560	2.0	371059.950	3.0
69.2756	24.03	-2.71	14185.000	1.5	158536.000	1.5	69.6138	26.02	-4.95	436.200	3.0	144085.970	4.0
69.2789	17.01	-1.28	0.000	2.0	144344.000	2.0	69.6147	17.01	-8.87	696.100	1.0	144344.000	2.0
69.2803	25.03	-4.03	22959.100	4.0	167300.300	3.0	69.6189	26.03	-1.69	52693.500	3.5	196352.600	2.5
69.2824	26.02	-3.67	24940.900	4.0	169277.600	4.0	69.6204	11.04	-5.38	73260.000	1.5	216896.000	1.5
69.2846	26.02	-4.43	0.000	4.0	144332.210	4.0	69.6217	13.02	-2.11	0.000	5	143633.380	5
69.2900	24.03	-2.81	14215.000	1.5	158536.000	1.5	69.6275	25.03	-3.28	25877.700	5.0	169499.200	5.0
69.2968	23.02	-2.94	16374.700	2.5	160681.480	3.5	69.6505	24.03	-5.09	15064.000	3.5	158638.000	4.5
69.2988	30.02	-3.18	137866.400	2.0	282169.000	2.0	69.6528	26.02	-7.90	932.400	1.0	144501.740	2.0
69.3002	26.02	-6.34	738.900	2.0	145038.610	3.0	69.6684	10.03	-6.06	41262.000	1.5	184799.000	5
69.3020	24.03	-3.52	15064.000	3.5	159360.000	3.5	69.6693	26.02	-3.87	82846.590	4.0	226381.910	3.0
69.3029	25.03	-2.16	53260.700	2.0	197554.800	2.0	69.6876	26.03	-6.05	50049.200	1.5	193546.800	2.5
69.3092	17.02	-5.68	29812.800	5	174093.800	1.5	69.6877	26.03	-1.95	52835.300	1.5	196332.600	2.5
69.3130	23.03	-1.54	0.000	2.0	144273.100	2.0	69.6886	26.03	-1.31	52837.100	2.5	196332.600	2.5
69.3154	25.03	-1.28	53286.700	3.0	197554.800	2.0	69.7054	24.03	-5.29	14481.000	2.5	157942.000	3.5
69.3181	23.02	-5.32	16977.600	5.5	161240.020	5.5	69.7057	23.03	-1.93	144273.100	2.0	287733.400	2.0
69.3185	23.03	-9.94	147656.500	3.0	291918.100	2.0	69.7232	30.02	-2.24	141392.500	0.0	284816.800	1.0
69.3202	10.04	-4.69	63899.000	0.0	208157.000	1.0	69.7353	25.03	-5.23	25440.400	3.0	168839.700	4.0
69.3207	26.02	-3.39	21462.200	4.0	165719.200	4.0	69.7405	26.02	-6.61	24940.900	4.0	168329.670	3.0
69.3226	24.03	-3.02	20667.000	2.5	164920.000	3.5	69.7458	26.02	-4.96	738.900	2.0	144116.640	3.0
69.3257	30.02	-2.76	140654.800	3.0	284901.500	2.0	69.7473	28.02	-4.69	61339.200	4.0	204714.000	3.0
69.3302	18.01	-1.33	1431.410	1.5	145668.800	1.5	69.7489	18.01	-4.22	0.000	5	143371.350	1.5
69.3321	9.01	-5.13	20873.400	2.0	165106.660	1.0	69.7550	20.02	-4.62	203373.220	0.0	346732.190	1.0
69.3365	26.03	-8.86	52620.400	4.5	196844.500	4.5	69.7595	26.03	-1.39	52835.300	1.5	196184.900	1.5
69.3379	26.02	-2.42	24558.800	5.0	168780.100	5.0	69.7604	26.03	-1.90	52837.100	2.5	196184.900	1.5
69.3390	24.03	-2.63	14317.000	5	158536.000	1.5	69.7617	25.02	-7.72	0.000	2.5	13345.070	3.5
69.3390	11.04	-5.91	73221.000	5	217440.000	5	69.7775	18.02	-3.68	1570.200	0.0	144882.930	1.0
69.3402	23.02	-6.18	16810.900	4.5	161027.320	4.5	69.7854	30.02	-1.73	141392.500	0.0	284689.000	1.0
69.3472	23.02	-6.37	16374.700	2.5	160576.620	3.5	69.7926	26.02	-5.00	70728.750	4.0	214010.320	5.0
69.3484	20.02	-4.4	226333.560	3.0	370533.070	4.0	69.7928	29.02	-3.63	2071.800	1.5	145353.000	1.5
69.3509	29.02	-1.24	0.000	2.5	144194.200	2.5	69.7932	26.02	-4.85	70694.030	5.0	213974.420	6.0
69.3524	30.02	-1.57	137866.400	2.0	282057.600	3.0	69.7941	26.02	-7.48	25142.400	3.0	168420.990	2.0
69.3538	17.02	-4.25	29905.600	1.5	174093.800	1.5	69.7941	18.01	-1.97	1431.410	1.5	144709.910	5
69.3569	20.02	-1.11	226333.560	3.0	370515.360	3.0	69.7982	30.02	-1.54	142483.300	2.0	285753.500	2.0
69.3577	11.04	-8.46	73260.000	1.5	217440.000	5	69.8032	10.03	-5.76	41217.000	2.5	184477.000	1.5
69.3606	17.01	-1.10	0.000	2.0	144174.000	3.0	69.8106	12.02	-4.20	426868.100	1.0	570112.800	0.0
69.3640	26.03	-2.32	52165.700	2.5	196332.600	2.5	69.8128	30.02	-4.59	142483.300	2.0	285723.500	3.0
69.3703	28.02	-3.45	0.000	4.0	144153.900	4.0	69.8207	24.03	-2.83	15414.000	4.5	158638.000	4.5
69.3717	26.03	-1.86	52693.500	3.5	196844.500	4.5	69.8229	26.03	-6.89	50049.200	1.5	193268.700	1.5
69.3774	7.01	-4.65	48.700	1.0	144187.940	2.0	69.8251	10.03	-5.08	41262.000	1.5	184477.000	1.5
69.3793	26.02	-5.72	25142.400	3.0	169277.600	4.0	69.8276	25.02	-6.97	0.000	2.5	143209.800	2.5
69.3797	26.02	-4.45	436.200	3.0	144570.530	3.0	69.8308	28.02	-2.63	14031.600	2.0	157234.800	1.0
69.3882	26.02	-5.27	0.000	4.0	144116.640	3.0	69.8386	26.02	-7.78	25142.400	3.0	168329.670	3.0
69.3905	24.03	-0.02	21328.000	5.5	165440.000	4.5	69.8395	20.02	-5.00	204842.640	2.0	348028.130	3.0
69.3909	30.02	-1.72	141392.500	0.0	285503.700	1.0	69.8396	26.03	-8.65	47089.700	6.5	190275.000	5.5
69.4030	26.02	-3.80	0.000	4.0	144085.970	4.0	69.8402	24.03	-3.08	14185.000	1.5	157369.000	2.5
69.4036	30.02	-4.99	141327.000	4.0	285411.700	3.0	69.8452	17.01	-4.40	27877.800	0.0	171051.500	1.0
69.4111	23.02	-4.43	16810.900	4.5	160879.980	4.5	69.8470	13.01	-3.04	0.000	0.0	143170.000	1.0
69.4129	26.02	-4.75	436.200	3.0	144501.740	2.0	69.8476	25.03	-3.77	25670.800	4.0	168839.700	4.0
69.4160	20.02	-2.53	227388.560	2.0	371447.580	1.0	69.8548	24.03	-4.71	14215.000	1.5	157369.000	2.5
69.4169	7.01	-7.22	130.800	2.0	144187.940	2.0	69.8576	25.02	-7.91	0.000	2.5	143148.400	1.5
69.4179	24.03	-3.93	14481.000	2.5	158536.000	1.5	69.8681	20.02	-4.93	227388.560	2.0	370515.360	3.0
69.4200	25.03	-5.10	31385.200	3.0	175436.000	3.0	69.8698	28.02	-4.19	14031.600	2.0	157154.900	2.0
69.4205	23.02	-4.25	16977.600	5.5	161027.320	4.5	69.8769	30.02	-3.29	142483.300	2.0	285592.100	2.0
69.4208	23.02	-2.91	16330.500	1.5	160379.640	2.5	69.8827	25.02	-8.13	0.000	2.5	143097.000	3.5
69.4211	23.03	-7.72	148369.200	4.0	292417.600	3.0	69.8961	26.03	-6.31	50049.200	1.5	193118.800	5
69.4213	26.02	-4.66	82333.920	3.0	226381.910	3.0	69.8984	28.02	-3.54	61339.200	4.0	204404.000	4.0
69.4232	24.03	-4.32	15414.000	4.5	159458.000	5.5	69.9041	26.03	-4.34	49539.900	2.5	192593.000	2.5
69.4334	18.02	-2.32	0.000	2.0	144023.000	1.0	69.9084	20.02	-4.36	203851.950	1.0</		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
70.0173	28.02	-1.64	14031.600	2.0	156853.400	3.0
70.0184	29.02	-1.38	0.000	2.5	142819.700	3.5
70.0263	29.02	-1.67	2071.800	1.5	144875.200	1.5
70.0281	18.03	-1.13	35033.100	1.5	177833.000	5
70.0313	28.02	-6.00	1360.700	3.0	144153.900	4.0
70.0467	25.03	-3.93	53212.300	4.0	195974.100	5.0
70.0571	26.02	-1.84	24558.800	5.0	167299.600	5.0
70.0869	26.02	-5.38	19404.800	2.0	162084.800	2.0
70.1024	26.02	-1.22	24558.800	5.0	167207.300	4.0
70.1036	20.02	-1.68	228413.950	3.0	371059.950	3.0
70.1051	10.03	-4.36	41217.000	2.5	183860.000	2.5
70.1262	11.04	-5.52	73260.000	1.5	215860.000	2.5
70.1272	10.03	-5.51	41262.000	1.5	183860.000	2.5
70.1357	30.02	-1.78	140071.000	1.0	282651.800	1.0
70.1379	28.02	-2.68	0.000	4.0	142576.200	5.0
70.1388	20.02	-1.12	204842.640	2.0	347417.050	3.0
70.1471	30.02	-2.49	140071.000	1.0	282628.600	2.0
70.1539	26.03	-5.12	50049.200	1.5	192593.000	2.5
70.1617	24.03	-2.30	15414.000	4.5	157942.000	3.5
70.1694	29.02	-1.79	0.000	2.5	142512.300	1.5
70.1732	28.02	-2.16	1360.700	3.0	143865.200	3.0
70.1791	28.02	-1.19	14031.600	2.0	156524.100	2.0
70.1847	26.03	-8.52	47032.500	5.5	189513.700	4.5
70.1987	18.02	-3.49	1570.200	0.0	144023.000	1.0
70.2002	25.03	-3.25	25440.400	3.0	167890.100	2.0
70.2037	23.03	-2.46	13122.800	0.0	155565.500	1.0
70.2118	29.02	-1.81	0.000	2.5	142426.300	2.5
70.2152	26.02	-6.06	436.200	3.0	142855.590	4.0
70.2157	30.02	-2.39	142483.300	2.0	284901.500	2.0
70.2293	26.03	-6.19	51396.300	3.5	193787.000	4.5
70.2332	8.02	-1.66	0.000	0.0	142382.800	1.0
70.2451	26.02	-2.17	24940.900	4.0	167299.600	5.0
70.2470	28.02	-2.69	2269.600	2.0	144624.400	1.0
70.2575	30.02	-1.73	142483.300	2.0	284816.800	1.0
70.2611	23.03	-3.06	13239.200	1.0	155565.500	1.0
70.2628	30.02	-4.25	140654.800	3.0	282977.600	4.0
70.2663	30.02	-1.25	140654.800	3.0	282970.600	3.0
70.2677	26.02	-4.66	0.000	4.0	142312.900	3.0
70.2716	24.03	-2.16	15064.000	3.5	157369.000	2.5
70.2761	30.02	-2.00	140654.800	3.0	282950.700	2.0
70.2825	8.02	-1.82	113.900	1.0	142396.900	0.0
70.2894	8.02	-1.18	113.900	1.0	142382.800	1.0
70.2900	8.02	-1.25	113.900	1.0	142381.700	2.0
70.2907	26.02	-1.10	24940.900	4.0	167207.300	4.0
70.3107	27.02	-4.00	1451.300	2.5	143677.100	3.5
70.3207	30.02	-3.93	142483.300	2.0	284689.000	1.0
70.3207	26.02	-4.96	63466.390	5.0	205672.010	4.0
70.3236	28.02	-3.22	1360.700	3.0	143560.500	2.0
70.3311	30.02	-2.62	140654.800	3.0	282839.500	3.0
70.3315	30.02	-2.18	140071.000	1.0	282254.900	1.0
70.3472	26.03	-4.55	49539.900	2.5	191692.000	1.5
70.3480	26.03	-4.30	51396.300	3.5	193546.800	2.5
70.3511	26.02	-1.06	24940.900	4.0	167085.120	3.0
70.3619	29.02	-1.66	2071.800	1.5	144194.200	2.5
70.3635	20.02	-3.23	228413.950	3.0	370533.070	4.0
70.3689	28.02	-2.74	71383.700	2.0	213492.000	1.0
70.3692	28.02	-4.44	62606.300	3.0	204714.000	3.0
70.3694	23.03	-1.90	13458.300	2.0	155565.500	1.0
70.3723	20.02	-3.12	228413.950	3.0	370515.360	3.0
70.3735	26.02	-5.05	436.200	3.0	142535.070	2.0
70.3740	30.02	-2.10	140071.000	1.0	282169.000	2.0
70.3769	24.03	-1.86	20218.000	1.5	162310.000	2.5
70.3849	8.02	-1.05	306.900	2.0	142382.800	1.0
70.3855	8.02	-1.78	306.900	2.0	142381.700	2.0
70.3904	26.02	-2.20	25142.400	3.0	167207.300	4.0
70.3960	20.02	-1.79	204842.640	2.0	346896.260	2.0
70.3992	26.02	-3.32	0.000	4.0	142047.000	4.0
70.4098	30.02	-1.75	140654.800	3.0	282680.400	4.0
70.4289	26.03	-5.37	51396.300	3.5	193383.500	3.5
70.4355	30.02	-2.57	140654.800	3.0	282628.600	2.0
70.4432	15.01	-2.64	0.000	0.0	141958.400	1.0
70.4473	28.02	-1.62	71067.000	3.0	213017.000	2.0
70.4510	26.02	-1.58	25142.400	3.0	167085.120	3.0
70.4523	18.01	-4.88	1431.410	1.5	143371.350	1.5
70.4635	17.01	-1.47	11653.500	2.0	153571.000	1.0
70.4768	20.02	-3.09	228413.950	3.0	370304.540	2.0
70.4774	20.02	-1.86	204842.640	2.0	346732.190	1.0
70.4808	26.02	-9.33	42896.900	3.0	184779.500	4.0
70.4813	26.02	-9.88	42896.900	3.0	184778.500	3.0
70.4837	26.02	-3.86	436.200	3.0	142312.900	3.0
70.4852	27.02	-4.90	0.000	4.5	141873.800	5.5
70.4908	26.02	-8.05	24558.800	5.0	166421.330	4.0
70.4921	25.03	-4.84	25440.400	3.0	167300.300	3.0
70.4922	26.02	-1.16	25142.400	3.0	167002.000	2.0
70.5230	28.02	-4.58	62606.300	3.0	204404.000	4.0
70.5238	26.02	-4.62	738.900	2.0	142535.070	2.0
70.5250	15.01	-3.62	164.800	1.0	141958.400	1.0
70.5299	23.03	-3.46	144273.100	2.0	286056.900	3.0
70.5353	18.04	-1.51	0.000	0.0	141773.000	1.0
70.5368	28.02	-3.84	71067.000	3.0	212837.000	4.0
70.5368	26.02	-4.44	63425.170	6.0	205195.150	5.0
70.5425	20.02	-1.80	228413.950	3.0	370172.430	4.0
70.5622	16.01	-1.29	14884.800	2.5	156603.670	3.5
70.5802	9.02	-2.11	316709.810	5	458392.610	1.5
70.5835	18.01	-4.28	1431.410	1.5	143107.600	2.5
70.5846	9.02	-2.14	316920.990	1.5	458594.860	2.5
70.5899	26.02	-1.17	24558.800	5.0	166222.200	4.0
70.5952	15.04	-1.71	304161.300	5	445814.000	1.5
70.5962	30.02	-1.18	141327.000	4.0	282977.600	4.0
70.5965	28.02	-3.29	71841.900	1.0	213492.000	1.0
70.5997	30.02	-2.70	141327.000	4.0	282970.600	3.0
70.6000	28.02	-2.83	1360.700	3.0	143003.700	4.0
70.6000	24.03	-1.69	20667.000	2.5	162310.000	2.5
70.6001	26.03	-5.36	50049.200	1.5	191692.000	1.5
70.6049	28.02	-2.24	71383.700	2.0	213017.000	2.0
70.6068	25.03	-3.25	25670.800	4.0	167300.300	3.0
70.6072	26.02	-2.35	24558.800	5.0	166187.500	6.0
70.6083	9.02	-2.79	316709.810	5	458336.270	5
70.6084	26.02	-4.24	63466.390	5.0	205092.530	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
70.6161	26.02	-6.31	436.200	3.0	142047.000	4.0
70.6201	26.02	-6.31	932.400	1.0	142535.070	2.0
70.6237	28.02	-2.57	2269.600	2.0	143865.200	3.0
70.6344	26.02	-7.09	738.900	2.0	142312.900	3.0
70.6377	25.03	-1.49	31385.200	3.0	172952.600	3.0
70.6429	26.02	-1.86	24940.900	4.0	166498.000	3.0
70.6479	24.03	-1.10	20218.000	1.5	161765.000	1.5
70.6484	24.03	-1.64	36490.000	3.5	178036.000	4.5
70.6484	16.05	-1.11	105874.000	5	247420.000	1.5
70.6585	23.03	-2.01	144273.100	2.0	285798.900	2.0
70.6635	26.02	-4.73	63486.780	4.0	205002.470	3.0
70.6643	30.02	-1.52	140654.800	3.0	282169.000	2.0
70.6651	30.02	-1.92	141327.000	4.0	282839.500	3.0
70.6767	15.01	-3.95	469.000	2.0	141958.400	1.0
70.6812	26.02	-7.63	24940.900	4.0	166421.330	4.0
70.6818	25.03	-2.50	31473.500	2.0	172952.600	3.0
70.6856	9.02	-2.60	316920.990	1.5	458392.610	1.5
70.6881	26.02	-3.21	0.000	4.0	141466.530	3.0
70.6957	26.02	-4.81	63494.000	3.0	204943.260	2.0
70.7034	24.03	-3.43	36490.000	3.5	177926.000	3.5
70.7137	9.02	-2.08	316920.990	1.5	458336.270	5
70.7151	26.02	-4.88	63494.560	2.0	204907.130	1.0
70.7153	28.02	-1.85	14031.600	2.0	155443.700	2.0
70.7189	24.03	-1.82	20667.000	2.5	162072.000	3.5
70.7200	30.02	-2.13	140654.800	3.0	282057.600	3.0
70.7232	26.02	-4.16	20688.400	1.0	162084.800	2.0
70.7308	26.03	-5.42	52165.700	2.5	193546.800	2.5
70.7310	26.02	-2.40	24558.800	5.0	165939.470	5.0
70.7370	15.04	-1.44	304445.300	1.5	445814.000	2.5
70.7370	15.04	-2.40	304445.300	1.5	445814.000	1.5
70.7436	26.02	-1.07	25142.400	3.0	166498.000	3.0
70.7439	9.02	-1.76	317239.970	2.5	458594.860	2.5
70.7447	30.02	-2.01	141327.000	4.0	282680.400	4.0
70.7457	26.03	-4.71	61253.300	3.5	202604.700	3.5
70.7464	17.01	-2.20	0.000	2.0	141350.000	3.0
70.7477	27.02	-5.10	0.000	4.5	141347.300	4.5
70.7515	23.03	-2.71	151427.000	1.0	292766.700	2.0
70.7648	30.02	-1.61	141327.000	4.0	282640.200	5.0
70.7694	23.03	-2.35	146429.300	2.0	287733.400	2.0
70.7738	16.01	-4.77	14853.000	1.5	156148.190	5
70.7760	28.02	-6.27	2269.600	2.0	143560.500	2.0
70.7774	24.03	-1.23	20218.000	1.5	161506.000	2.5
70.7808	26.02	-1.37	24940.900	4.0	166222.200	4.0
70.7820	26.02	-5.48	25142.400	3.0	166421.330	4.0
70.7852	23.03	-2.84	146855.100	3.0	288127.600	4.0
70.7873	16.01	-1.48	14853.000	1.5	156121.330	2.5
70.7918	30.02	-4.15	141392.500	0.0	282651.800	1.0
70.7953	30.02	-2.73	144501.200	3.0	285753.500	2.0
70.7980	28.02	-1.80	71067.000	3.0	212314.000	3.0
70.7992	29.01	-3.32	0.000	0.0	141244.600	1.0
70.8032	16.01	-1.66	14884.800	2.5	156121.330	2.5
70.8103	30.02	-1.62	144501.200	3.0	285723.500	3.0
70.8126	26.03	-4.75	52165.700	2.5	193383.500	3.5
70.8155	26.02	-4.99	82846.590	4.0	224058.700	4.0
70.8190	26.02	-3.68	82846.590	4.0	224051.630	3.0
70.8218	23.03	-2.17	151567.300	2.0	292766.700	2.0
70.8232	26.03	-4.66	51396.300	3.5	192593.000	2.5
70.8263	27.02	-5.10	0.000	4.5	141190.500	5.5
70.8334	16.01	-4.24	14853.000	1.5	156029.280	1.5
70.8340	28.02	-1.66	71841.900	1.0	213017.000	2.0
70.8369	26.03	-4.22	61156.000	2.5	203235.400	2.5
70.8383	26.03	-2.31	52620.400	4.5	193787.000	4.5
70.8414	26.02	-4.33	24558.800	5.0	165719.200	4.0
70.8453	9.02	-2.06	317239.970	2.5	458392.610	1.5
70.8494	16.01	-4.19	14884.800	2.5	156029.280	1.5
70.8699	23.03	-3.50	146117.700	1.0	287221.400	1.0
70.8702	26.03	-5.33	52165.700	2.5	193268.700	1.5
70.8727	24.03	-1.85	20667.000	2.5	161765.000	1.5
70.8750	26.03	-3.30	52693.500	3.5	193787.000	4.5
70.8757	25.03	-4.33	31385.200	3.0	172477.200	4.0
70.8763	30.02	-2.56	144501.200	3.0	285592.100	2.0
70.8770	27.02	-2.58	15201.900	2.5	156291.400	2.5
70.8819	26.02	-2.17	25142.400	3.0	166222.200	4.0
70.8849	28.02	-2.47	1360.700	3.0	142434.400	2.0
70.8857	26.03	-3.27	61253.300	3.5	202325.000	2.5
70.9067	26.02	-2.72	436.200	3.0	141466.530	3.0
70.9092	23.03	-3.56	144273.100	2.0	285298.600	1.0
70.9152	25.03	-2.59	31385.200	3.0	172398.700	2.0
70.9170	17.01	-1.17	0.000	2.0	141010.000	2.0
70.9180	18.04	-1.65	765.000	1.0	141773.000	0.0
70.9180	18.04	-1.63	765.000	1.0	141773.000	1.0
70.9205	26.02	-2.22	0.000	4.0	141002.990	4.0
70.9225	18.04	-1.67	765.000	1.0	141764.000	2.0
70.9227	26.02	-2.11	24940.900	4.0	165939.470	5.0
70.9240	25.03	-1.71	53212.300	4.0	194208.200	3.0
70.9250	24.03	-3.44	21078.000	4.5	162072.000	3.5
70.9299	29.01	-2.05	0.000	0.0	140984.200	1.0
70.9370	26.03	-5.80	50049.200	1.5	191019.400	5
70.9394	16.01	-3.48	14853.000	1.5	155818.370	2.5
70.9407	26.02	-3.16	436.200	3.0	141399.040	2.0
70.9484	25.03	-3.76	53260.700	2.0	194208.200	3.0
70.9554	16.01	-4.82	14884.800	2.5	155818.370	2.5
70.9571	28.02	-1.21	71383.700	2.0	212314.000	1.0
70.9589	26.03	-3.64	61156.000	2.5	202082.600	3.5
70.9596	25.03	-1.87	31473.500	2.0	172398.700	2.0
70.9615	25.03	-2.88	53286.700	3.0	194208.200	3.0
70.9670	30.02	-2.40	144501.200	3.0	285411.700	3.0
70.9800	20.02	-3.48	203373.220	0.0	344257.920	1.0
70.9833	23.03	-1.80	146855.100	3.0	287733.400	2.0
70.9905	24.03	-1.72	37062.000	2.5	177926.000	3.5
70.9909	27.02	-2.10	15428.200	1.5	156291.400	2.5
70.9913	30.02	-4.01	141392.500	0.0	282254.900	1.0
70.9953	9.03	-2.47	451819.600	1.0	592574.000	1.0
70.9959	26.03	-3.68	52693.500	3.5	193546.800	2.5
70.9974	23.03	-1.07	151567.300	2.0	292417.600	3.0
70.9999	9.02	-1.88	316709.810	5	457555.170	1.5
71.0031	24.03	-2.25	20667.000	2.5	161506.000	2.5
71.0061	26.03	-3.36	56011.600	4.5	196844.500	4.5
71.0136	25.03	-2.64	31580.700	1.0	172398.700	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
71.0257	9.02	-1.51	316920.990	1.5	457715.100	2.5	71.3126	26.02	-5.41	21857.200	2.0	162084.800	2.0
71.0267	23.03	-2.25	146429.300	2.0	287221.400	2.0	71.3136	27.02	-2.08	0.000	4.5	140225.800	3.5
71.0323	24.03	-2.10	20218.000	1.5	160999.000	1.5	71.3141	25.03	-3.41	31473.500	2.0	171698.300	2.0
71.0337	26.02	-2.54	24940.900	4.0	165719.200	4.0	71.3231	25.02	-7.73	0.000	2.5	140207.090	2.5
71.0413	26.03	-3.64	52620.400	4.5	193383.500	3.5	71.3262	29.02	-1.63	0.000	2.5	140200.900	1.5
71.0530	17.01	-1.75	0.000	2.0	140740.000	1.0	71.3286	26.02	-4.15	89334.510	2.0	229530.670	1.0
71.0547	9.02	-1.85	316709.810	.5	457446.300	.5	71.3308	28.02	-.88	16661.600	2.0	156853.400	3.0
71.0578	30.02	-1.30	141327.000	4.0	282057.600	3.0	71.3349	28.02	-.89	0.000	4.0	140183.800	4.0
71.0578	26.02	-3.65	738.900	2.0	141469.450	1.0	71.3370	25.02	-7.81	0.000	2.5	140179.740	2.5
71.0593	26.02	-2.56	738.900	2.0	141466.530	3.0	71.3383	28.02	-.52	16977.800	1.0	157154.900	2.0
71.0607	12.03	-3.37	612240.300	1.5	752965.000	1.5	71.3394	26.02	-3.10	89334.510	2.0	229509.560	3.0
71.0636	9.02	-1.28	317239.970	2.5	457959.070	3.5	71.3427	30.02	-2.52	142483.300	2.0	282651.800	1.0
71.0674	26.03	-4.69	52835.300	1.5	193546.800	2.5	71.3431	30.02	-1.47	145243.900	2.0	285411.700	3.0
71.0683	26.03	-4.12	52837.100	2.5	193546.800	2.5	71.3446	28.02	-2.41	2269.600	2.0	142434.400	2.0
71.0749	25.03	-3.91	31385.200	3.0	172081.900	3.0	71.3476	9.03	-2.30	452081.100	2.0	592240.000	3.0
71.0766	26.02	-3.96	0.000	4.0	140693.360	3.0	71.3545	30.02	-3.62	142483.300	2.0	282628.600	2.0
71.0783	26.03	-2.99	52693.500	3.5	193383.500	3.5	71.3686	25.03	-3.91	31580.700	1.0	171698.300	2.0
71.0799	12.03	-2.43	612240.300	1.5	752927.000	2.5	71.3801	24.03	-1.73	20218.000	1.5	160313.000	2.5
71.0809	26.03	-0.11	49539.900	2.5	190224.600	3.5	71.3814	23.03	-2.07	144273.100	2.0	284365.700	1.0
71.0898	25.03	-2.65	53212.300	4.0	193879.400	5.0	71.3821	13.01	-3.11	0.000	0.0	140091.200	1.0
71.0933	26.02	-3.59	738.900	2.0	141399.040	2.0	71.3836	26.02	-5.53	19404.800	2.0	159493.000	3.0
71.1008	27.02	-1.62	0.000	4.5	140645.400	3.5	71.3846	23.03	-2.24	147135.200	2.0	287221.400	2.0
71.1065	9.02	-1.77	316920.990	1.5	457555.170	1.5	71.3883	26.02	-3.46	89491.390	1.0	229570.360	2.0
71.1070	26.02	-2.67	19404.800	2.0	160037.900	2.0	71.3894	23.03	-1.92	147656.500	3.0	287733.400	2.0
71.1151	25.03	-2.71	31473.500	2.0	172090.600	1.0	71.3924	30.02	-2.12	0.000	0.0	140071.000	1.0
71.1192	10.03	-2.89	532978.000	1.5	673587.000	2.5	71.4062	17.01	-.11	696.100	1.0	140740.000	1.0
71.1195	25.03	-4.08	31473.500	2.0	172081.900	3.0	71.4085	26.02	-3.45	89491.390	1.0	229530.670	1.0
71.1197	23.03	-3.52	10959.300	2.0	151567.300	2.0	71.4200	26.02	-4.12	436.200	3.0	140453.100	3.0
71.1232	16.03	-4.36	123503.900	.5	264105.000	1.5	71.4224	26.02	-4.59	738.900	2.0	140750.980	2.0
71.1273	9.03	-4.11	452081.100	2.0	592674.000	1.0	71.4265	28.02	-.85	17230.700	0.0	157234.800	1.0
71.1339	14.01	-1.13	0.000	.5	140580.000	1.5	71.4503	26.03	-6.35	50049.200	1.5	190006.700	2.5
71.1355	26.02	-2.17	25142.400	3.0	165719.200	4.0	71.4518	26.02	-3.41	738.900	2.0	140693.360	3.0
71.1373	28.02	-2.18	16661.600	2.0	157234.800	1.0	71.4523	23.03	-2.83	144273.100	2.0	284226.700	3.0
71.1406	26.02	-2.58	436.200	3.0	141002.990	4.0	71.4561	27.02	-2.85	841.200	3.5	140787.300	2.5
71.1425	25.02	-6.98	0.000	2.5	140563.030	3.5	71.4570	25.02	-7.03	0.000	2.5	139944.400	3.5
71.1499	25.03	-7.13	53212.300	4.0	193760.700	4.0	71.4628	20.02	-3.41	203851.950	1.0	343784.960	1.0
71.1509	26.03	-3.74	52837.100	2.5	193383.500	3.5	71.4711	13.01	-2.46	0.000	0.0	139916.700	1.0
71.1517	28.02	-2.63	0.000	4.0	140544.700	3.0	71.4743	25.03	-4.46	31473.500	2.0	171383.900	1.0
71.1556	26.02	-5.48	932.400	1.0	141469.450	1.0	71.4799	26.03	-6.14	52693.500	3.5	192593.000	2.5
71.1563	26.03	-4.03	56011.600	4.5	196547.300	3.5	71.4839	25.03	-2.34	31385.200	3.0	171276.900	3.0
71.1615	9.02	-2.55	316920.990	1.5	457446.390	.5	71.4842	27.02	-1.15	15811.400	.5	155702.400	1.5
71.1694	25.03	-2.19	31580.700	1.0	172090.600	1.0	71.4960	24.03	-3.76	21078.000	4.5	160946.000	3.5
71.1695	30.02	-2.25	145243.900	2.0	285753.500	2.0	71.4982	26.02	-4.97	66464.640	3.0	206328.220	3.0
71.1713	27.02	-4.79	841.200	3.5	141347.300	4.5	71.4988	28.02	-3.35	16661.600	2.0	156524.100	2.0
71.1741	27.02	-2.15	15201.900	2.5	155702.400	1.5	71.5084	8.02	-2.70	210458.500	1.0	350302.300	2.0
71.1778	28.02	-.88	16661.600	2.0	157154.900	2.0	71.5129	26.03	-6.21	50049.200	1.5	198884.200	1.5
71.1782	27.02	-5.33	0.000	4.5	140492.400	4.5	71.5164	23.03	-2.77	144273.100	2.0	284101.100	3.0
71.1789	23.03	-1.35	151427.000	1.0	291918.100	2.0	71.5169	26.02	-2.35	0.000	4.0	139827.170	4.0
71.1808	30.02	-1.61	142483.300	2.0	282970.600	3.0	71.5212	27.02	-2.00	0.000	4.5	139818.700	3.5
71.1816	14.01	-.84	287.320	1.5	140773.000	2.5	71.5213	26.02	-6.46	932.400	1.0	140750.980	2.0
71.1817	26.02	-4.71	89084.790	3.0	229570.360	2.0	71.5254	7.01	-2.70	15316.200	2.0	155126.730	1.0
71.1835	15.01	-2.14	469.000	2.0	140951.000	3.0	71.5286	27.02	-2.64	841.200	3.5	140645.400	3.5
71.1847	30.02	-3.88	145243.900	2.0	285723.500	3.0	71.5290	25.03	-3.37	31473.500	2.0	171276.900	3.0
71.1851	25.03	-2.80	53260.700	2.0	193739.600	2.0	71.5291	28.03	-3.50	31580.700	1.0	171383.900	1.0
71.1854	29.02	-2.44	2071.800	1.5	142550.100	.5	71.5375	30.02	-2.90	145966.600	3.0	285753.500	2.0
71.1862	26.03	-6.27	56367.900	5.5	196844.500	4.5	71.5453	30.02	-4.49	142483.300	2.0	282254.900	1.0
71.1870	9.02	-1.87	317239.970	2.5	457715.100	2.5	71.5468	26.02	-3.89	66464.640	3.0	206233.310	2.0
71.1876	25.03	-2.69	53286.700	3.0	193760.700	4.0	71.5515	15.01	-1.61	164.800	1.0	139924.300	2.0
71.1890	23.03	-3.08	147656.500	3.0	288127.600	4.0	71.5520	23.03	-3.81	148369.200	4.0	288127.600	4.0
71.1907	23.03	-1.87	10959.300	2.0	151427.000	1.0	71.5524	26.03	-4.75	52839.300	1.5	192593.000	2.5
71.1909	30.02	-1.94	142483.300	2.0	282950.700	2.0	71.5528	30.02	-1.76	145966.600	3.0	285723.500	3.0
71.1912	26.03	-5.34	49539.900	2.5	190006.700	2.5	71.5530	29.02	-.41	0.000	2.5	139756.600	2.5
71.1913	26.02	-2.69	932.400	1.0	141399.040	2.0	71.5533	26.03	-4.08	52837.100	2.5	192593.000	2.5
71.1944	23.03	-2.47	13458.300	2.0	153918.700	3.0	71.5596	17.01	-.34	996.400	0.0	140740.000	1.0
71.1981	26.02	-4.39	0.000	4.0	140453.100	3.0	71.5599	18.04	-.19	2030.000	2.0	141773.000	1.0
71.1982	25.03	-1.98	53286.700	3.0	193739.600	2.0	71.5645	18.04	-.61	2030.000	2.0	141764.000	2.0
71.2002	10.03	-3.51	532978.000	1.5	673427.000	1.5	71.5702	9.03	-4.38	452517.100	3.0	592240.000	3.0
71.2037	26.02	-3.20	1027.300	0.0	141469.450	1.0	71.5717	25.03	-1.90	53260.700	2.0	192980.700	1.0
71.2045	29.02	-2.22	2071.800	1.5	142512.300	1.5	71.5747	26.02	-4.39	738.900	2.0	140453.100	3.0
71.2081	26.03	-5.29	52835.300	1.5	193268.700	1.5	71.5830	10.03	-1.34	532978.000	1.5	672676.000	.5
71.2090	26.03	-4.21	52837.100	2.5	193268.700	1.5	71.5893	30.02	-2.28	142483.300	2.0	282169.000	2.0
71.2112	26.03	-4.38	52165.700	2.5	192593.000	2.5	71.5916	23.03	-1.23	146117.700	1.0	285798.900	2.0
71.2125	26.02	-3.73	89084.790	3.0	229509.560	3.0	71.5920	26.02	-5.44	0.000	4.0	139680.470	3.0
71.2191	20.02	-4.53	203373.220	0.0	343784.960	1.0	71.5987	23.03	-4.48	144273.100	2.0	283940.400	2.0
71.2220	20.02	-4.67	203851.950	1.0	344257.920	1.0	71.6002	8.02	-1.47	210458.500	1.0	350122.900	1.0
71.2249	30.02	-1.69	144501.200	3.0	284901.500	2.0	71.6024	16.01	-2.20	24571.600	1.5	164231.780	2.5
71.2327	26.02	-3.82	21699.900	3.0	162084.800	2.0	71.6037	30.02	-3.03	145243.900	2.0	284901.500	2.0
71.2337	27.02	-2.27	0.000	4.5	140382.900	3.5	71.6038	26.02	-4.81	66522.950	2.0	206180.410	3.0
71.2353	25.03	-4.48	31385.200	3.0	171765.000	4.0	71.6070	27.02	-4.63	841.200	3.5	140492.4	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
71.7236	26.02	-2.36	30886.400	4.0	170310.600	3.0	72.1890	27.02	-2.39	17766.200	3.5	156291.400	2.5
71.7281	20.02	-2.37	204842.640	2.0	344257.920	1.0	72.1905	15.01	-2.91	0.000	0.0	138522.400	1.0
71.7397	25.03	-2.34	31473.500	2.0	170866.300	2.0	72.1989	28.02	-4.69	76237.800	3.0	214744.000	2.0
71.7407	26.02	-3.09	436.200	3.0	139827.170	4.0	72.2027	23.03	-3.00	153918.700	3.0	292417.600	3.0
71.7439	27.02	-4.13	841.200	3.5	140225.800	3.5	72.2046	20.02	-2.04	212310.040	4.0	350805.320	4.0
71.7512	27.02	-2.27	841.200	3.5	140211.600	2.5	72.2084	24.03	-1.28	36490.000	3.5	174978.000	2.5
71.7517	23.03	-1.47	146429.300	2.0	285798.900	2.0	72.2087	28.02	-0.70	0.000	4.0	138487.400	3.0
71.7538	17.01	-0.45	11653.500	2.0	151019.000	2.0	72.2128	26.02	-4.25	66522.950	2.0	205002.470	3.0
71.7552	26.03	-6.13	49539.900	2.5	188902.700	3.5	72.2145	30.02	-1.15	144501.200	3.0	282977.600	4.0
71.7618	17.01	-0.26	0.000	2.0	139350.000	1.0	72.2181	30.02	-3.06	144501.200	3.0	282970.600	3.0
71.7620	26.02	-3.00	20688.400	1.0	160037.900	2.0	72.2181	20.02	-3.27	212310.040	4.0	350779.470	3.0
71.7689	15.01	-0.52	469.000	2.0	139805.100	3.0	72.2199	28.02	-1.97	16977.800	1.0	155443.700	2.0
71.7690	27.02	-3.35	1451.300	2.5	140787.300	2.5	72.2322	9.03	-2.69	451819.600	1.0	590262.000	0.0
71.7729	26.02	-5.32	436.200	3.0	139764.480	2.0	72.2381	20.02	-3.66	212310.040	4.0	350741.190	3.0
71.7746	26.02	-6.25	19404.800	2.0	158729.890	3.0	72.2388	16.01	-1.85	14853.000	1.5	153282.800	2.5
71.7838	20.02	-2.58	204842.640	2.0	344149.810	2.0	72.2418	10.03	-0.76	532978.000	1.5	671402.000	2.5
71.7949	25.03	-3.06	31580.700	1.0	170866.300	2.0	72.2419	26.02	-0.26	30356.200	6.0	168780.100	5.0
71.8015	26.02	-4.73	66464.640	3.0	205737.510	2.0	72.2437	26.02	-4.88	66522.950	2.0	204943.260	2.0
71.8090	18.01	-0.65	0.000	5	139258.250	5	72.2440	26.02	-2.58	30857.800	3.0	169277.600	4.0
71.8090	20.02	-2.87	203851.950	1.0	343110.240	0.0	72.2541	24.02	-5.59	575.000	4.0	138975.500	3.0
71.8130	26.03	-4.50	57594.000	3.5	196844.500	4.5	72.2541	23.03	-2.21	147656.500	3.0	286056.900	3.0
71.8157	15.01	-0.95	164.800	1.0	139410.200	2.0	72.2554	16.01	-3.94	14884.800	2.5	153282.800	2.5
71.8162	26.02	-3.98	436.200	3.0	139680.470	3.0	72.2589	26.02	-2.06	30886.400	4.0	169277.600	4.0
71.8176	29.01	-1.96	0.000	0.0	139241.600	1.0	72.2603	15.01	-3.64	164.800	1.0	138553.300	2.0
71.8316	26.02	-4.12	66522.950	2.0	205737.510	2.0	72.2640	9.03	-3.19	451819.600	1.0	590201.000	1.0
71.8342	26.02	-3.35	66522.950	2.0	205732.370	3.0	72.2648	24.03	-5.74	21078.000	4.5	159456.000	5.5
71.8353	26.02	-3.02	66464.640	3.0	205672.010	4.0	72.2657	26.03	-6.17	50049.200	1.5	188427.500	2.5
71.8382	23.03	-1.27	146855.100	3.0	286056.900	3.0	72.2714	27.02	-3.30	1451.300	2.5	139818.700	3.5
71.8421	27.02	-9.30	1451.300	2.5	140645.400	3.5	72.2731	24.03	-2.49	36490.000	3.5	174854.000	3.5
71.8448	26.02	-2.85	436.200	3.0	139625.170	4.0	72.2738	25.02	-5.61	0.000	2.5	138362.800	3.5
71.8449	26.02	-8.24	30088.840	3.0	169277.600	4.0	72.2765	15.01	-2.99	164.800	1.0	138522.400	1.0
71.8462	23.03	-1.28	144273.100	2.0	283459.400	3.0	72.2786	17.01	-0.58	996.400	0.0	139350.000	1.0
71.8467	8.01	-0.88	26810.700	2.5	165996.000	1.5	72.2796	26.02	-4.88	66591.680	1.0	204943.260	2.0
71.8473	28.02	-1.08	1360.700	3.0	140544.700	3.0	72.2811	16.01	-3.21	14853.000	1.5	153201.720	1.5
71.8489	23.03	-4.26	146117.700	1.0	285298.600	1.0	72.2832	27.02	-3.47	1866.800	1.5	140211.600	2.5
71.8510	8.01	-0.27	26810.700	2.5	165987.700	2.5	72.2853	25.02	-5.91	0.000	2.5	138340.620	2.5
71.8540	26.02	-4.90	66522.950	2.0	205694.090	1.0	72.2866	30.02	-1.45	144501.200	3.0	282839.500	3.0
71.8549	8.01	-0.08	26830.500	1.5	165996.000	1.5	72.2867	26.02	-2.85	21699.900	3.0	160037.900	2.0
71.8600	17.01	-1.84	11653.500	2.0	150813.000	1.0	72.2892	27.02	-2.65	1866.800	1.5	140200.100	1.5
71.8612	8.01	-0.87	26830.500	1.5	165987.700	2.5	72.2898	28.02	-4.39	75646.900	4.0	213979.000	3.0
71.8670	26.02	-3.62	66591.680	1.0	205737.510	2.0	72.2898	26.02	-6.80	30088.840	3.0	168420.990	2.0
71.8671	28.02	-1.63	2269.600	2.0	141415.300	1.0	72.2919	23.03	-0.92	13239.200	1.0	151567.300	2.0
71.8714	27.02	-2.68	0.000	4.5	139137.500	5.5	72.2972	24.03	-2.61	20218.000	1.5	158536.000	1.5
71.8781	26.03	-3.00	57720.000	4.5	196844.500	4.5	72.2977	16.01	-4.04	14884.800	2.5	153201.720	1.5
71.8783	10.03	-1.00	532978.000	1.5	672102.000	1.5	72.3044	23.03	-1.00	13122.800	0.0	151427.000	1.0
71.8885	25.03	-2.86	31473.500	2.0	170577.800	1.0	72.3053	24.02	-5.90	59.900	1.0	138362.400	2.0
71.8895	26.02	-3.70	66591.680	1.0	205694.090	1.0	72.3062	16.01	-3.46	14853.000	1.5	153153.660	5
71.8952	12.02	-3.01	425840.300	2.0	564731.600	1.0	72.3107	27.02	-2.23	1451.300	2.5	139743.400	2.5
71.9282	17.01	-0.24	11653.500	2.0	150681.000	2.0	72.3160	24.03	-3.07	21078.000	4.5	159360.000	3.5
71.9292	26.02	-5.70	738.900	2.0	139764.480	2.0	72.3173	26.02	-4.68	19404.800	2.0	157684.300	2.0
71.9299	12.02	-2.54	425640.300	2.0	564664.600	2.0	72.3195	15.01	-2.58	469.000	2.0	138744.300	2.0
71.9360	26.02	-3.80	19404.800	2.0	158417.310	2.0	72.3196	28.02	-2.88	2269.600	2.0	140544.700	3.0
71.9367	26.02	-3.08	20481.900	4.0	159493.000	3.0	72.3265	26.02	-2.92	20300.800	5.0	158562.700	4.0
71.9439	25.03	-2.40	31580.700	1.0	170577.800	1.0	72.3302	30.02	-1.39	147498.600	1.0	285753.500	2.0
71.9486	29.02	-1.26	0.000	2.5	138988.100	1.5	72.3338	26.02	-3.81	20481.900	4.0	158729.890	3.0
71.9518	29.02	-0.93	0.000	2.5	138982.000	3.5	72.3338	23.03	-2.84	146117.700	1.0	284365.700	1.0
71.9541	27.02	-2.79	841.200	3.5	139818.700	3.5	72.3361	18.01	-0.99	0.000	5	138243.550	1.5
71.9666	26.03	-3.75	57594.000	3.5	196547.300	3.5	72.3375	26.02	-6.48	30088.840	3.0	168329.670	3.0
71.9715	23.03	-2.53	146855.100	3.0	285798.900	2.0	72.3407	25.02	-7.18	0.000	2.5	138234.790	1.5
71.9723	20.02	-3.51	204842.640	2.0	343784.960	1.0	72.3411	24.03	-2.52	20667.000	2.5	158901.000	2.5
71.9727	26.02	-3.57	738.900	2.0	139680.470	3.0	72.3537	23.03	-0.94	13239.200	1.0	151449.100	0.0
71.9729	15.01	-2.14	469.000	2.0	139410.200	2.0	72.3566	9.03	-3.30	451819.600	1.0	590024.000	2.0
71.9762	30.02	-1.77	145966.600	3.0	284901.500	2.0	72.3652	26.02	-4.21	0.000	4.0	138187.930	3.0
71.9779	27.02	-4.81	1451.300	2.5	140382.900	3.5	72.3653	23.03	-1.04	13239.200	1.0	151427.000	1.0
71.9830	23.03	-1.31	147135.200	2.0	286056.900	3.0	72.3672	26.03	-5.13	52835.300	1.5	191019.400	5
71.9834	27.02	-5.17	0.000	4.5	138921.000	4.5	72.3682	30.02	-1.67	147571.200	1.0	285753.500	2.0
71.9836	27.02	-3.54	1866.800	1.5	140787.300	2.5	72.3690	26.02	-3.86	21857.200	2.0	160037.900	2.0
71.9931	27.02	-1.49	841.200	3.5	139743.400	2.5	72.3691	24.02	-6.92	181.900	2.0	138362.400	2.0
72.0007	26.03	-6.46	49539.900	2.5	188427.500	2.5	72.3698	30.02	-1.91	144501.200	3.0	282680.400	4.0
72.0167	26.03	-4.79	52835.300	1.5	191692.000	1.5	72.3715	27.02	-2.42	1451.300	2.5	139627.200	1.5
72.0176	26.03	-4.82	52837.100	2.5	191692.000	1.5	72.3781	23.03	-4.83	147135.200	2.0	285298.600	1.0
72.0188	26.02	-4.37	19404.800	2.0	158257.370	1.0	72.3876	15.01	-2.12	164.800	1.0	138310.000	2.0
72.0190	28.02	-3.27	0.000	4.0	138852.200	3.0	72.3891	23.03	-2.85	147656.500	3.0	285798.900	2.0
72.0212	23.03	-0.87	153918.700	3.0	292766.700	2.0	72.3956	24.03	-4.10	21328.000	5.5	159458.000	3.5
72.0248	28.01	-3.84	0.000	2.5	138841.000	3.5	72.3960	29.02	-1.45	2071.800	1.5	140200.900	1.5
72.0295	26.02	-4.93	932.400	1.0	139764.480	2.0	72.3962	25.02	-9.39	0.000	2.5	138128.800	1.5
72.0314	26.03	-6.90	51396.300	3.5	190224.600	3.5	72.3969	30.02	-1.95	144501.200	3.0	282628.600	2.0
72.0319	26.03	-3.63	57720.000	4.5	196547.300	3.5	72.4009	9.03	-2.05	452081.100	2.0	590201.000	1.0
72.0341	28.02	-1.75	1360.700	3.0	140183.800	4.0	72.4022	26.03	-8.23	51396.300			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
72.5026	20.04	-4.44	18830.000	2.0	156756.000	1.0	72.7998	26.02	-3.54	89084.790	3.0	226447.880	2.0
72.5041	22.03	-1.35	127912.500	.5	265835.800	.5	72.8004	20.02	-2.54	213379.400	3.0	350741.190	3.0
72.5072	23.03	-1.19	148369.200	4.0	286286.500	4.0	72.8021	15.01	-2.05	469.000	2.0	17827.600	1.0
72.5079	24.03	-3.25	37062.000	2.5	174978.000	2.5	72.8162	26.02	-3.98	82410.940	2.0	219743.040	1.0
72.5091	29.01	-3.08	0.000	0.0	137913.800	1.0	72.8171	30.02	-3.30	147571.200	1.0	284901.500	2.0
72.5196	26.02	-1.46	30886.400	4.0	168780.100	5.0	72.8200	9.03	-3.13	452081.100	2.0	589406.000	3.0
72.5200	28.02	-.51	1360.700	3.0	139253.600	2.0	72.8208	27.02	-6.43	1451.300	2.5	138774.700	2.5
72.5286	27.02	-3.29	1866.800	1.5	139743.400	2.5	72.8236	30.02	-2.41	147498.600	1.0	284816.800	1.0
72.5326	24.03	-3.46	20667.000	2.5	158536.000	1.5	72.8255	19.04	-.18	24249.500	2.5	161564.000	2.5
72.5351	27.02	-1.94	1866.800	1.5	139731.000	.5	72.8262	26.03	-3.83	52693.500	3.5	190006.700	2.5
72.5355	12.02	-2.78	426868.100	1.0	564731.600	1.0	72.8279	24.03	-2.58	21328.000	5.5	158638.000	4.5
72.5474	26.03	-5.20	52165.700	2.5	190006.700	2.5	72.8336	12.02	-1.75	425640.300	2.0	562939.500	2.0
72.5474	15.01	-1.64	469.000	2.0	138310.000	2.0	72.8347	26.02	-3.09	89084.790	3.0	226381.910	3.0
72.5521	30.02	-2.00	147921.500	2.0	285753.500	2.0	72.8367	23.03	-2.41	146429.300	2.0	283722.700	1.0
72.5543	26.03	-5.06	50049.200	1.5	187877.100	.5	72.8388	9.03	-1.39	451819.600	1.0	589109.000	1.0
72.5544	15.01	-2.16	0.000	0.0	137827.600	1.0	72.8425	25.02	-5.56	0.000	2.5	137282.400	2.5
72.5548	18.01	-.90	1431.410	1.5	139258.250	.5	72.8465	24.03	-2.65	20667.000	2.5	157942.000	3.5
72.5570	23.03	-2.17	146117.700	1.0	283940.400	2.0	72.8477	26.02	-4.08	82382.870	3.0	219655.550	2.0
72.5624	27.02	-3.63	0.000	4.5	137812.400	3.5	72.8504	26.02	-1.28	21462.200	4.0	158729.890	3.0
72.5679	30.02	-.98	147921.500	2.0	285723.500	3.0	72.8607	26.02	-3.80	82494.880	1.0	219743.040	1.0
72.5683	13.02	-1.90	53682.930	.5	191484.230	.5	72.8619	23.03	-2.19	146855.100	3.0	284101.100	3.0
72.5703	23.03	-1.91	146429.300	2.0	284226.700	3.0	72.8621	30.02	-2.00	147571.200	1.0	284816.800	1.0
72.5708	12.02	-2.20	426868.100	1.0	564664.600	2.0	72.8626	26.02	-4.06	82410.940	2.0	219655.550	2.0
72.5726	26.02	-2.59	21699.900	3.0	159493.000	3.0	72.8643	16.01	-2.98	14853.000	1.5	152094.340	2.5
72.5732	24.03	-5.69	37062.000	2.5	174854.000	3.5	72.8701	23.03	-3.42	147135.200	2.0	284365.700	1.0
72.5754	9.00	-4.52	0.000	.5	137787.700	1.5	72.8709	18.02	-.38	832.500	2.0	138061.400	1.0
72.5819	26.03	-4.79	56011.600	4.5	193787.000	4.5	72.8796	29.01	-3.74	0.000	0.0	137212.700	1.0
72.5878	16.02	-.15	297.200	1.0	138061.400	1.0	72.8811	26.02	-.40	0.000	4.0	137209.730	4.0
72.5881	26.02	-2.83	0.000	4.0	137763.700	5.0	72.8812	18.01	-3.33	14884.800	2.5	152094.340	2.5
72.5894	26.02	-6.95	30716.200	2.0	168477.360	1.0	72.8857	23.03	-1.18	155565.500	1.0	292766.700	2.0
72.5898	27.02	-2.90	1866.800	1.5	139627.200	1.5	72.8914	30.02	-2.39	147498.600	1.0	284689.000	1.0
72.5903	26.02	-4.08	932.400	1.0	138691.810	1.0	72.8916	28.02	-3.80	75646.900	4.0	212837.000	4.0
72.5944	26.02	-3.64	436.200	3.0	138187.930	3.0	72.8922	29.02	-2.96	2071.800	1.5	139260.700	.5
72.5945	26.02	-7.34	30725.800	1.0	168477.360	1.0	72.8936	19.04	-.03	24012.700	1.5	161199.000	1.5
72.5955	20.02	-2.64	203851.950	1.0	341601.460	2.0	72.8952	26.02	-4.00	82382.870	3.0	219566.080	3.0
72.5999	28.02	-4.38	76237.800	3.0	213979.000	3.0	72.9012	26.02	-3.45	89334.510	2.0	226506.540	1.0
72.6064	26.02	-4.49	20688.400	1.0	158417.310	2.0	72.9015	25.03	-5.71	52835.300	1.5	190006.700	2.5
72.6076	30.02	-1.16	145243.900	2.0	282970.600	3.0	72.9025	25.03	-4.53	52837.100	2.5	190006.700	2.5
72.6119	26.03	-5.83	52165.700	2.5	189884.200	1.5	72.9072	26.02	-4.30	82494.880	1.0	219655.550	2.0
72.6181	30.02	-1.30	145243.900	2.0	282950.700	2.0	72.9101	26.02	-4.43	82410.940	2.0	219566.080	3.0
72.6191	26.02	-6.87	30716.200	2.0	168420.990	2.0	72.9123	24.03	-2.52	20218.000	1.5	157369.000	2.5
72.6242	26.02	-7.94	30725.800	1.0	168420.990	2.0	72.9194	25.02	-4.89	0.000	2.5	137137.690	1.5
72.6281	23.03	-2.33	148369.200	4.0	286056.900	3.0	72.9253	28.02	-1.10	1360.700	3.0	138487.400	3.0
72.6297	29.02	-1.81	2071.800	1.5	139756.600	2.5	72.9300	30.02	-1.85	147571.200	1.0	284689.000	1.0
72.6365	23.03	-1.86	146429.300	2.0	284101.100	3.0	72.9323	26.02	-3.77	89334.510	2.0	226447.880	2.0
72.6371	30.02	-1.34	147921.500	2.0	285592.100	2.0	72.9350	26.02	-1.04	436.200	3.0	137544.600	2.0
72.6386	30.02	-2.13	144501.200	3.0	282169.000	2.0	72.9358	9.03	-1.09	452081.100	2.0	589188.000	2.0
72.6391	26.02	-4.78	436.200	3.0	138103.120	4.0	72.9361	18.01	-3.36	14853.000	1.5	151959.410	1.5
72.6404	26.02	-3.60	1027.300	0.0	138691.810	1.0	72.9369	22.03	-1.04	128730.900	1.5	265835.800	.5
72.6413	15.01	-2.30	164.800	1.0	137827.600	1.0	72.9375	27.02	-4.24	1866.800	1.5	138970.500	1.5
72.6420	27.02	-3.72	0.000	4.5	137661.400	4.5	72.9392	26.02	-1.50	21462.200	4.0	158562.700	4.0
72.6426	25.02	-7.34	0.000	2.5	137660.240	3.5	72.9439	26.02	-3.12	436.200	3.0	137527.920	4.0
72.6456	26.03	-4.75	52620.400	4.5	190275.000	5.5	72.9440	23.03	-3.00	147135.200	2.0	284226.700	3.0
72.6555	26.02	-3.72	21857.200	2.0	159493.000	3.0	72.9453	25.02	-4.50	82382.870	3.0	219471.970	4.0
72.6673	26.02	-8.06	30716.200	2.0	168329.670	3.0	72.9473	23.03	-2.23	146855.100	3.0	283940.400	2.0
72.6676	24.03	-4.82	36490.000	3.5	174103.000	2.5	72.9517	16.02	-.12	11320.800	2.0	148397.800	1.0
72.6718	23.03	-1.85	146117.700	1.0	283722.700	1.0	72.9530	16.01	-6.23	14884.800	2.5	151959.410	1.5
72.6722	26.03	-3.18	52620.400	4.5	190224.600	3.5	72.9552	25.03	-2.74	53212.300	4.0	190282.800	3.0
72.6748	25.02	-4.92	0.000	2.5	137599.200	3.5	72.9615	9.00	-4.64	404.100	1.5	137462.710	1.5
72.6767	30.02	-2.16	145243.900	2.0	282839.500	3.0	72.9620	16.01	-2.12	14853.000	1.5	151910.670	1.5
72.6780	15.01	-2.08	164.800	1.0	137758.100	0.0	72.9667	26.02	-4.38	21208.500	0.0	158257.370	1.0
72.6838	30.02	-2.33	147921.500	2.0	285503.700	1.0	72.9667	26.03	-5.26	52835.300	1.5	189884.200	1.5
72.6908	26.02	-4.44	20688.400	1.0	158257.370	1.0	72.9675	26.02	-3.78	89334.510	2.0	226381.910	3.0
72.6915	13.02	-1.60	53916.600	1.5	191484.230	.5	72.9675	9.00	-2.26	404.100	1.5	137451.340	2.5
72.6939	26.02	-6.37	30857.800	3.0	168420.990	2.0	72.9676	26.03	-4.70	52837.100	2.5	189884.200	1.5
72.6941	28.01	-5.52	0.000	2.5	137562.740	3.5	72.9683	9.00	-3.12	404.100	1.5	137449.960	1.5
72.6956	24.03	-4.63	21078.000	4.5	158638.000	4.5	72.9709	24.03	-2.92	37062.000	2.5	174103.000	2.5
72.6975	30.02	-1.95	144501.200	3.0	282057.600	3.0	72.9720	9.00	-2.35	404.100	1.5	137443.040	2.5
72.7001	19.04	-1.26	24012.700	1.5	161564.000	2.5	72.9761	26.03	-5.72	51396.300	3.5	188427.500	2.5
72.7075	9.00	-2.94	404.100	1.5	137941.440	2.5	72.9767	26.02	-3.72	21699.900	3.0	158729.890	3.0
72.7083	28.01	-1.85	0.000	2.5	137535.960	3.5	72.9767	23.03	-3.31	146429.300	2.0	283459.400	3.0
72.7108	26.03	-4.07	52693.500	3.5	190224.600	3.5	72.9778	9.03	-2.02	452081.100	2.0	589109.000	1.0
72.7125	26.02	-2.52	0.000	4.0	137527.920	4.0	72.9789	16.01	-1.03	14884.800	2.5	151910.670	1.5
72.7131	28.01	-1.79	0.000	2.5	137526.730	2.5	72.9809	25.03	-2.39	53260.700	2.0	190282.800	3.0
72.7148	28.01	-2.76	0.000	2.5	137523.510	3.5	72.9818	28.02	-.02	0.000	4.0	137020.400	5.0
72.7164	20.02	-2.53	213379.400	3.0	350900.040	2.0	72.9846	26.02	-4.22	89491.390	1.0	226506.540	1.0
72.7171	28.01	-2.72	0.000	2.5	137519.230	2.5	72.9868	30.02	-3.22	145243.900	2.0	282254.900	1.0
72.7171	27.02	-3.28	1451.300	2.5	138970.500	1.5	72.9868	30.02	-1.21	145966.600	3.0	282977.600	4.0
72.7214	23.03	-2.02	146429.300	2.0	283940.400	2.0	72.9906	30.02	-2.73	145966.600	3.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
73.0786	16.02	-2.46	0.000	0.0	136839.000	1.0	73.3524	26.02	-2.78	83237.860	3.0	219566.080	3.0
73.0867	25.02	-4.34	0.000	2.5	136823.860	3.5	73.3545	23.03	-3.19	147135.200	2.0	283459.400	3.0
73.0876	26.02	-1.02	738.900	2.0	137561.100	1.0	73.3563	26.02	-3.42	30886.400	4.0	167207.300	4.0
73.0886	27.02	-2.90	841.200	3.5	137661.400	4.5	73.3584	28.02	-3.01	71067.000	3.0	207384.000	4.0
73.0886	26.03	-4.65	52693.500	3.5	189513.700	4.5	73.3619	26.02	-2.32	83161.480	4.0	219471.970	4.0
73.0887	25.03	-2.05	53212.300	4.0	190032.400	4.0	73.3625	25.03	-3.98	31580.700	1.0	167890.100	2.0
73.0921	30.02	-3.34	145243.900	2.0	282057.600	3.0	73.3641	23.03	-1.79	151427.000	1.0	287733.400	2.0
73.0929	18.01	-1.19	1431.410	1.5	138243.550	1.5	73.3694	26.02	-3.09	83358.880	2.0	219655.550	2.0
73.0964	26.02	-1.07	738.900	2.0	137544.600	1.0	73.3729	27.02	-3.55	0.000	4.5	136290.100	3.5
73.0966	23.03	-1.84	147135.200	2.0	283940.400	2.0	73.3752	26.02	-1.88	30716.200	2.0	167002.000	2.0
73.0983	9.03	-2.92	538195.000	0.0	674997.000	1.0	73.3771	26.03	-3.52	52620.400	4.5	188902.700	3.5
73.1010	26.02	-2.80	0.000	4.0	136797.050	3.0	73.3772	26.02	-1.52	21699.900	3.0	157982.000	3.0
73.1012	25.02	-4.82	0.000	2.5	136796.610	2.5	73.3797	26.02	-2.11	83138.230	5.0	219415.610	5.0
73.1105	28.02	-3.91	76237.800	3.0	213017.000	2.0	73.3804	26.02	-1.14	30725.800	1.0	167002.000	2.0
73.1136	26.02	-1.37	436.200	3.0	137209.730	4.0	73.3881	26.03	-5.66	52165.700	2.5	188427.500	2.5
73.1168	30.02	-2.04	147921.500	2.0	284689.000	1.0	73.3885	28.02	-3.39	78482.900	1.0	214744.000	2.0
73.1214	20.02	-2.21	204842.640	2.0	341601.460	2.0	73.3923	26.02	-3.76	83161.480	4.0	219415.610	5.0
73.1284	25.03	-2.48	53286.700	3.0	190032.400	4.0	73.4029	26.02	-4.35	63466.390	5.0	199700.830	4.0
73.1331	26.03	-5.57	52165.700	2.5	188902.700	3.5	73.4031	26.02	-2.98	83237.860	3.0	219471.970	4.0
73.1338	9.03	-2.57	538261.300	1.0	674997.000	1.0	73.4055	16.02	-3.27	11320.800	2.0	147550.320	1.0
73.1338	9.03	-3.04	538261.300	1.0	674997.000	2.0	73.4067	26.02	-2.17	30857.800	3.0	167085.120	3.0
73.1436	26.02	-1.34	21699.900	3.0	158417.310	2.0	73.4118	28.02	-2.51	2269.600	2.0	138467.400	3.0
73.1455	30.02	-4.38	145966.600	3.0	282680.400	4.0	73.4165	26.03	-3.71	52693.500	3.5	186902.700	3.5
73.1480	28.02	-5.51	2269.600	2.0	138978.800	1.0	73.4176	26.02	-3.48	83358.880	2.0	219566.080	3.0
73.1518	24.03	-3.53	20667.000	2.5	157369.000	2.5	73.4201	30.02	-2.81	145966.600	3.0	282169.000	2.0
73.1544	23.03	-2.94	10959.300	2.0	147656.500	3.0	73.4213	9.03	-2.53	538597.800	3.0	674798.000	3.0
73.1614	26.02	-1.41	738.900	2.0	137423.000	3.0	73.4214	26.02	-2.11	0.000	4.0	136200.130	3.0
73.1617	23.03	-1.16	147656.500	3.0	284340.100	4.0	73.4221	26.02	-3.19	30886.400	4.0	167065.120	3.0
73.1657	28.02	-3.89	71067.000	3.0	207743.000	3.0	73.4252	26.03	-5.93	57594.000	3.5	193767.000	4.5
73.1671	21.02	-0.08	197.500	2.5	136871.000	3.5	73.4294	26.02	-0.82	0.000	4.0	136165.170	5.0
73.1671	21.02	-1.38	197.500	2.5	136871.000	2.5	73.4301	9.00	-3.65	404.100	1.5	136587.990	1.5
73.1685	9.03	-2.16	452517.100	3.0	589188.000	2.0	73.4320	9.00	-2.77	404.100	1.5	136584.450	2.5
73.1686	28.02	-0.06	1360.700	3.0	138031.400	4.0	73.4341	26.02	-1.95	436.200	3.0	136612.760	4.0
73.1705	28.02	-3.80	75646.900	4.0	212314.600	3.0	73.4344	23.03	-1.60	10959.300	2.0	147135.200	2.0
73.1732	30.02	-1.73	145966.600	3.0	282628.600	2.0	73.4397	23.03	-1.15	151567.300	2.0	287733.400	2.0
73.1802	10.03	-4.90	511411.000	2.5	648060.000	1.5	73.4409	26.02	-2.28	30088.840	3.0	166252.740	3.0
73.1846	26.02	-1.24	932.400	1.0	137573.200	0.0	73.4419	28.02	-3.84	71841.900	1.0	208004.000	2.0
73.1855	19.04	-0.01	0.000	1.5	136639.000	2.5	73.4439	12.02	-1.33	425640.300	2.0	561798.700	3.0
73.1890	26.02	-4.56	69695.730	4.0	206328.220	3.0	73.4477	9.00	-3.79	0.000	5.0	136151.210	5.0
73.1911	26.02	-1.65	932.400	1.0	137561.100	1.0	73.4515	26.02	-3.47	30857.800	3.0	167002.000	2.0
73.1948	26.02	-4.58	82382.870	3.0	219004.530	4.0	73.4520	16.01	-6.62	14853.000	1.5	150996.270	2.5
73.1956	28.02	-3.81	71383.700	2.0	208004.000	2.0	73.4574	26.02	-8.12	30088.840	3.0	166222.200	4.0
73.1996	26.02	-2.02	0.000	4.0	136612.780	4.0	73.4620	26.02	-2.72	21857.200	2.0	157982.000	3.0
73.1999	26.02	-1.30	932.400	1.0	137544.600	2.0	73.4623	9.00	-4.26	0.000	5.0	136124.300	5.0
73.2000	24.03	-4.00	37062.000	2.5	173674.000	1.5	73.4632	28.01	-2.70	0.000	2.5	136122.610	2.5
73.2025	29.02	-1.19	0.000	2.5	136607.300	2.5	73.4679	9.00	-2.39	0.000	5.0	136113.810	1.5
73.2041	23.03	-3.56	146855.100	3.0	283459.400	3.0	73.4703	9.00	-4.52	0.000	5.0	136109.430	5.0
73.2065	9.03	-2.68	538397.200	2.0	674997.000	1.0	73.4773	27.02	-4.77	20194.900	1.5	156291.400	2.5
73.2065	9.03	-2.45	538397.200	2.0	674997.000	2.0	73.4774	26.02	-4.74	436.200	3.0	136532.450	2.0
73.2129	9.00	-2.73	0.000	5.0	136587.990	1.5	73.4775	26.02	-3.13	83646.980	1.0	219743.040	1.0
73.2131	23.03	-3.64	147135.200	2.0	283722.700	1.0	73.4802	30.02	-1.70	145966.600	3.0	282057.600	3.0
73.2158	28.02	-1.18	2269.600	2.0	138852.200	3.0	73.4809	9.00	-2.44	0.000	5.0	136089.840	1.5
73.2224	23.03	-1.61	147656.500	3.0	284226.700	3.0	73.4908	12.02	-2.14	426868.100	1.0	562939.500	2.0
73.2247	20.02	-1.30	214334.060	2.0	350900.040	2.0	73.4932	26.03	-4.42	57720.000	4.5	193787.000	4.5
73.2278	26.02	-3.46	21857.200	2.0	158417.310	2.0	73.4940	26.03	-4.56	52837.100	2.5	188902.700	3.5
73.2340	28.01	-2.61	0.000	2.5	136548.550	2.5	73.4980	26.02	-4.53	738.900	2.0	136797.050	3.0
73.2348	28.01	-2.41	0.000	2.5	136547.130	3.5	73.4993	26.02	-2.43	30088.840	3.0	166144.630	2.0
73.2374	28.01	-2.59	0.000	2.5	136542.280	3.5	73.4997	26.02	-1.99	738.900	2.0	136793.820	2.0
73.2376	16.02	-1.67	297.200	1.0	136839.000	1.0	73.5019	9.00	-5.05	404.100	1.5	136455.080	1.5
73.2385	26.02	-4.29	82382.870	3.0	210923.080	3.0	73.5038	9.00	-3.48	404.100	1.5	136451.490	2.5
73.2419	26.02	-1.39	1027.300	0.0	137561.100	1.0	73.5096	26.02	-2.71	69695.730	4.0	205732.370	3.0
73.2433	28.01	-3.33	0.000	2.5	136531.260	1.5	73.5128	9.00	-2.25	404.100	1.5	136434.850	2.5
73.2435	16.01	-1.21	14853.000	1.5	151383.830	5.0	73.5163	26.02	-2.02	83138.230	5.0	219162.420	6.0
73.2494	26.02	-1.50	21462.200	4.0	157982.000	3.0	73.5171	9.00	-3.26	404.100	1.5	136426.800	1.5
73.2536	26.02	-3.60	82410.940	2.0	218923.080	1.0	73.5187	28.01	-3.11	1506.940	1.5	137526.730	2.5
73.2566	20.02	-3.28	204842.640	2.0	341349.190	1.0	73.5208	9.00	-4.58	404.100	1.5	136420.060	5.0
73.2574	25.03	-5.86	31385.200	3.0	167890.100	2.0	73.5228	28.01	-4.11	1506.940	1.5	137519.230	2.5
73.2623	12.02	-2.03	425640.300	2.0	562136.100	2.0	73.5228	29.02	-1.09	2071.800	1.5	138084.000	2.5
73.2647	26.02	-4.26	49836.830	3.0	206328.220	3.0	73.5247	26.02	-3.13	0.000	4.0	136008.740	3.0
73.2652	26.02	-4.94	69837.760	2.0	206328.220	3.0	73.5248	26.02	-3.61	83646.980	1.0	219655.550	2.0
73.2683	26.02	-3.80	69695.730	4.0	206180.410	3.0	73.5259	16.02	-1.65	832.500	2.0	136839.000	1.0
73.2693	29.02	-2.34	0.000	2.5	136482.900	1.5	73.5302	25.03	-2.81	53212.300	4.0	189210.900	4.0
73.2761	30.02	-2.92	147498.600	1.0	283968.800	0.0	73.5320	9.00	-3.49	0.000	5.0	135995.270	5.0
73.2842	9.00	-3.35	0.000	5.0	136455.080	1.5	73.5345	26.02	-2.68	0.000	4.0	135990.620	4.0
73.2872	26.02	-4.34	82410.940	2.0	218860.430	2.0	73.5378	26.02	-1.76	21699.900	3.0	157684.300	2.0
73.2894	20.02	-2.48	214334.060	2.0	350779.470	3.0	73.5422	26.02	-2.34	69695.730	4.0	205672.010	4.0
73.2895	26.02	-3.71	69788.190	1.0	206233.310	2.0	73.5451	23.03	-2.41	148369.200	4.0	284340.100	4.0
73.2898	23.03	-4.11	147656.500	3.0	284101.100	3.0	73.5476	9.00	-3.12	0.000	5.0	135966.390	1.5
73.2918	28.02	-4.16	78303.100	2.0	214744.000	2.0	73.5519	29.01	-1.34	0.000	0.0	135958.460	1.0
73.2935													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
73.6193	20.04	-2.05	18830.000	2.0	154664.000	2.0	73.6517	26.02	-4.58	84159.550	4.0	215566.080	3.0
73.6196	26.02	-2.66	63494.560	2.0	193327.950	1.0	73.6524	16.01	-7.04	14853.000	1.5	150258.200	.5
73.6207	26.02	-3.93	30356.200	6.0	166187.500	6.0	73.6531	27.02	-3.35	0.000	4.5	135404.000	4.5
73.6230	26.02	-1.61	21857.200	2.0	157684.300	2.0	73.6549	28.01	-1.74	0.000	2.5	135400.670	3.5
73.6232	25.03	-3.99	31473.500	2.0	167300.300	3.0	73.6570	26.02	-2.79	69695.730	4.0	205092.530	4.0
73.6240	16.02	-1.27	11320.800	2.0	147146.000	2.0	73.6573	26.02	-3.63	63425.170	6.0	198821.390	6.0
73.6240	16.02	-3.18	11320.800	2.0	147146.000	2.0	73.6580	26.02	-9.93	30857.800	3.0	166252.740	3.0
73.6242	20.02	-2.42	203373.220	0.0	339198.090	1.0	73.6600	26.03	-4.29	61156.000	2.5	196547.300	3.5
73.6279	26.02	-2.78	66464.640	3.0	202282.650	2.0	73.6648	28.01	-3.11	0.000	2.5	135382.530	1.5
73.6315	26.02	-3.15	66522.950	2.0	202334.390	1.0	73.6664	30.02	-1.99	147571.200	1.0	282950.700	2.0
73.6344	26.02	-2.50	63494.000	3.0	199300.150	2.0	73.6667	26.02	-2.65	738.900	2.0	136117.940	2.0
73.6347	26.02	-3.29	63494.560	2.0	199300.150	2.0	73.6699	26.02	-4.03	84369.920	2.0	215743.040	1.0
73.6361	23.03	-2.39	147656.500	3.0	283459.400	3.0	73.6747	26.02	-0.82	30857.800	3.0	166222.200	4.0
73.6407	23.03	-2.10	151427.000	1.0	287221.400	2.0	73.6798	26.02	-2.03	63466.390	5.0	198821.390	6.0
73.6412	26.02	-5.27	738.900	2.0	136532.450	2.0	73.6844	20.02	-2.02	203851.950	1.0	339198.090	1.0
73.6433	9.03	-2.78	456884.300	1.0	592674.000	1.0	73.6893	26.02	-3.59	30886.400	4.0	166222.200	4.0
73.6434	26.03	-5.64	57594.000	3.5	193383.500	3.5	73.6909	26.02	-2.12	0.000	4.0	135316.420	5.0
73.6476	26.02	-1.26	30716.200	2.0	166498.000	3.0	73.6930	26.02	-4.86	84159.550	4.0	215471.970	4.0
73.6509	26.02	-2.36	63486.780	4.0	199262.440	3.0	73.6933	9.02	-1.98	324492.550	.5	459804.550	1.5
73.6548	26.02	-3.14	63494.000	3.0	199262.440	3.0	73.6941	9.03	-0.62	581181.600	1.0	587130.000	2.0
73.6551	26.02	-4.59	63494.560	2.0	199262.440	3.0	73.6957	26.02	-3.31	63466.390	5.0	198773.950	5.0
73.6558	26.02	-2.49	83237.860	3.0	219004.530	4.0	73.6980	26.02	-1.94	932.400	1.0	136235.840	1.0
73.6561	12.02	-2.12	426868.100	1.0	562634.200	1.0	73.6913	26.03	-3.61	61253.300	3.5	196547.300	3.5
73.6573	26.02	-2.56	436.200	3.0	136200.130	3.0	73.6916	27.02	-3.96	841.200	3.5	136129.100	2.5
73.6596	26.02	-3.87	66522.950	2.0	202282.650	2.0	73.6918	26.02	-2.11	63486.780	4.0	198773.950	5.0
73.6664	9.00	-4.07	404.100	1.5	136151.210	.5	73.6917	26.02	-9.86	30857.800	3.0	166144.630	2.0
73.6668	26.02	-2.39	63466.390	5.0	199212.720	4.0	73.6917	26.02	-4.10	84369.920	2.0	219655.550	2.0
73.6669	28.01	-3.17	0.000	2.5	135746.130	1.5	73.6920	9.00	-3.11	404.100	1.5	135685.270	1.5
73.6670	28.01	-4.94	0.000	2.5	135746.060	3.5	73.6923	26.02	-1.72	738.900	2.0	136008.740	3.0
73.6688	26.02	-3.08	66591.680	1.0	202334.390	1.0	73.6926	26.02	-2.72	436.200	3.0	135705.570	3.0
73.6693	20.02	-0.78	212310.040	4.0	348051.860	4.0	73.6927	12.02	-2.02	426868.100	1.0	562136.100	2.0
73.6716	20.02	-3.16	204842.640	2.0	340580.150	3.0	73.6929	9.02	-1.85	324876.720	1.5	460141.630	2.5
73.6728	26.02	-3.24	0.000	4.0	135735.310	5.0	73.6930	26.02	-2.33	69836.830	3.0	205092.530	4.0
73.6735	26.03	-3.44	52693.500	3.5	188427.500	2.5	73.6936	26.02	-2.98	63466.390	5.0	198717.600	4.0
73.6746	23.03	-3.13	148369.200	4.0	284101.100	3.0	73.6937	26.03	-6.92	52835.300	1.5	188084.900	1.5
73.6779	26.02	-2.52	738.900	2.0	136464.900	1.0	73.6938	26.03	-3.63	52837.100	2.5	188084.900	1.5
73.6779	26.02	-2.72	63486.780	4.0	199212.720	4.0	73.6939	26.02	-4.53	0.000	2.5	135246.270	2.5
73.6810	9.00	-4.56	404.100	1.5	136124.300	.5	73.6942	26.02	-1.80	0.000	4.0	135239.740	4.0
73.6818	26.02	-3.25	63494.000	3.0	199212.720	4.0	73.6946	26.02	-4.14	63486.780	4.0	198717.600	4.0
73.6821	20.02	-2.30	212310.040	4.0	348028.130	3.0	73.6951	26.02	-2.26	63494.000	3.0	198717.600	4.0
73.6840	26.02	-2.12	63425.170	6.0	199139.760	5.0	73.6951	26.02	-2.60	83646.980	1.0	218860.430	2.0
73.6866	25.02	-6.41	0.000	2.5	135709.900	2.5	73.6958	26.02	-1.44	1027.300	0.0	136235.840	1.0
73.6867	9.00	-3.17	404.100	1.5	136113.810	1.5	73.6960	7.01	-4.68	109217.600	2.0	244418.520	1.0
73.6889	26.02	-3.27	0.000	4.0	135705.570	3.0	73.6964	9.00	-6.83	404.100	1.5	135603.850	2.5
73.6891	9.00	-4.82	404.100	1.5	136109.430	.5	73.6966	26.02	-4.39	84369.920	2.0	219564.080	3.0
73.6969	26.02	-3.55	66591.680	1.0	202282.650	2.0	73.6967	13.02	-3.83	53682.930	.5	188878.220	1.5
73.6984	9.00	-1.84	404.100	1.5	136092.240	2.5	73.6976	28.02	-3.23	78303.100	2.0	213492.000	1.0
73.6997	9.00	-2.99	404.100	1.5	136089.840	1.5	73.6972	26.02	-0.99	932.400	1.0	136117.940	2.0
73.7000	26.02	-3.29	83237.860	3.0	218923.080	3.0	73.6973	26.03	-3.81	61156.000	2.5	196332.600	2.5
73.7000	9.00	-3.82	0.000	.5	135685.270	1.5	73.6978	7.01	-4.46	109217.600	2.0	244391.880	2.0
73.7019	26.02	-2.19	436.200	3.0	136117.940	2.0	73.6978	26.02	-4.90	63486.780	4.0	198658.800	3.0
73.7039	16.01	-6.76	14853.000	1.5	150531.120	1.5	73.6983	26.02	-3.11	69836.830	3.0	205002.470	3.0
73.7042	26.02	-2.34	66522.950	2.0	202200.510	3.0	73.6983	26.02	-2.38	69837.760	2.0	205002.470	3.0
73.7051	28.02	-3.02	78303.100	2.0	213975.000	3.0	73.6983	26.02	-3.33	63494.000	3.0	198658.800	3.0
73.7060	9.00	-2.42	404.100	1.5	136078.240	2.5	73.6984	26.02	-2.33	63494.560	2.0	198658.800	3.0
73.7064	26.02	-3.34	63466.390	5.0	199139.760	5.0	73.6985	9.02	-0.66	266561.850	1.5	401724.330	.5
73.7118	26.03	-5.54	57720.000	4.5	192383.500	3.5	73.6985	26.02	-2.96	69747.400	0.0	204907.130	1.0
73.7142	19.03	-0.31	0.000	2.0	135659.000	1.0	73.6987	23.03	-3.30	10959.300	2.0	146117.700	1.0
73.7169	23.03	-1.98	151567.300	2.0	287221.400	2.0	73.6991	26.02	-2.63	69788.190	1.0	204943.260	2.0
73.7175	28.01	-5.84	0.000	2.5	135652.930	1.5	73.6991	30.02	-2.04	147498.600	1.0	282651.800	1.0
73.7175	26.02	-4.94	63486.780	4.0	199139.760	5.0	73.6997	29.01	-5.18	0.000	0.0	135135.600	1.0
73.7245	26.02	-2.14	30857.800	3.0	166498.000	3.0	73.6997	7.01	-4.31	109217.600	2.0	244353.310	3.0
73.7297	28.01	-2.12	0.000	2.5	135630.630	2.5	74.0028	30.02	-3.24	147498.600	1.0	282628.600	2.0
73.7298	26.02	-7.92	30088.840	3.0	165719.200	4.0	74.0089	26.02	-3.04	69788.190	1.0	204907.130	1.0
73.7303	28.01	-1.95	0.000	2.5	135629.400	3.5	74.0093	26.02	-2.31	436.200	3.0	135554.410	4.0
73.7335	28.01	-2.83	0.000	2.5	135623.590	1.5	74.0100	25.02	-6.88	0.000	2.5	135116.800	1.5
73.7340	28.01	-2.98	0.000	2.5	135622.600	3.5	74.0154	20.02	-2.03	212310.040	4.0	347417.050	3.0
73.7340	26.02	-4.91	83237.860	3.0	218860.430	2.0	74.0157	26.02	-4.60	69836.830	3.0	204943.260	2.0
73.7355	28.01	-2.51	0.000	2.5	135619.910	1.5	74.0162	26.02	-2.96	69837.760	2.0	204943.260	2.0
73.7365	28.01	-2.38	0.000	2.5	135618.080	1.5	74.0210	26.02	-8.73	0.000	4.0	135096.840	3.0
73.7400	26.02	-2.73	30886.400	4.0	166498.000	3.0	74.0223	28.02	-1.52	2269.600	2.0	137364.100	1.0
73.7441	28.02	-1.77	1360.700	3.0	136964.800	3.0	74.0246	23.03	-3.93	148369.200	4.0	283459.400	3.0
73.7454	18.01	-2.90	0.000	.5	135601.650	.5	74.0270	18.01	-3.05	0.000	.5	135085.920	1.5
73.7463	26.02	-6.43	932.400	1.0	136532.450	2.0	74.0299	30.02	-1.90	147571.200	1.0	282651.800	1.0
73.7506	26.03	-5.03	52835.300	1.5	188427.500	2.5	74.0338	20.02	-1.21	212310.040	4.0	347383.510	4.0
73.7511	26.03	-4.09	61253.300	3.5	196844.500	4.5	74.0360	26.02	-4.15	69837.760	2.0	204907.130	1.0
73.7511	9.00	-3.78	404.100	1.5	135995.270	.5	74.0426	30.02	-3.02	147571.200	1.0	282628.600	2.0
73.7515	26.03	-4.63	52837.100	2.5	188427.500	2.5	74.0450	26.02	-3.03	30886.400	4.0	165939.470	5.0
73.7554	26.02	-1.68	30356.200	6.0	165939.470	5.0	74.0471	30.02	-4.41	147971.500	2.0	282970.600	3.0
73.7612	26												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
74.1502	26.02	-3.24	30857.800	3.0	165719.200	4.0	74.5023	16.05	-2.81	462653.000	2.5	596877.000	2.5
74.1555	26.02	-2.33	63486.780	4.0	198338.620	4.0	74.5023	16.05	-1.51	462653.000	3.5	596877.000	2.5
74.1563	26.02	-3.13	63486.780	4.0	198337.600	3.0	74.5023	16.05	-1.67	462653.000	2.5	596877.000	1.5
74.1566	26.02	-3.33	63486.780	4.0	198336.580	5.0	74.5058	28.02	-1.32	0.000	4.0	134217.800	5.0
74.1592	26.02	-3.43	84159.550	4.0	219004.530	4.0	74.5084	26.03	-5.63	56011.600	4.5	190224.600	3.5
74.1594	26.02	-3.24	63494.000	3.0	198338.620	4.0	74.5107	23.03	-0.63	153918.700	3.0	288127.600	4.0
74.1603	26.02	-2.40	63494.000	3.0	198337.600	3.0	74.5110	28.01	-3.52	0.000	2.5	134208.300	2.5
74.1604	26.02	-3.13	436.200	3.0	135279.040	2.0	74.5162	26.02	-4.11	738.900	2.0	134937.840	2.0
74.1606	26.02	-3.34	63494.560	2.0	198337.060	3.0	74.5166	23.03	-1.16	13458.300	2.0	147656.500	3.0
74.1622	26.02	-3.28	63494.000	3.0	198333.560	2.0	74.5182	23.02	-3.95	27727.800	3.5	161923.280	2.5
74.1625	26.02	-2.50	63494.560	2.0	198333.560	2.0	74.5184	17.03	-3.49	32547.000	0.0	166742.000	1.0
74.1626	27.02	-4.30	1451.300	2.5	136290.100	3.5	74.5213	26.02	-3.43	1027.300	0.0	135217.170	1.0
74.1643	28.02	-3.30	79143.300	2.0	213979.000	3.0	74.5229	26.02	-2.19	79860.420	5.0	214047.380	4.0
74.1652	28.02	-1.71	78657.800	0.0	213492.000	1.0	74.5262	19.03	0.16	0.000	2.0	134181.000	2.0
74.1659	26.02	-2.92	30886.400	4.0	165719.200	4.0	74.5322	18.01	-4.20	1431.410	1.5	135601.650	1.5
74.1680	26.02	-3.06	66464.640	3.0	201293.750	2.0	74.5348	26.02	-2.18	79844.740	6.0	214010.320	5.0
74.1722	9.03	-4.68	451819.600	1.0	586641.000	2.0	74.5359	28.01	-3.60	1506.940	1.5	135670.490	1.5
74.1820	26.02	-1.63	436.200	3.0	135239.740	4.0	74.5389	9.02	-2.36	355981.900	1.5	490140.000	1.5
74.1928	27.02	-2.05	20918.500	5	155702.400	1.5	74.5389	9.02	-3.32	355981.900	1.5	490140.000	2.5
74.1933	28.01	-2.61	0.000	2.5	134783.140	2.5	74.5399	28.01	-5.59	0.000	2.5	134156.280	1.5
74.1938	12.02	-3.05	427852.100	0.0	562634.200	1.0	74.5400	26.02	-2.48	932.400	1.0	135088.600	0.0
74.1950	19.03	-4.41	1673.000	1.0	136453.000	0.0	74.5435	26.02	-4.54	79860.420	5.0	214010.320	5.0
74.1952	9.02	-3.36	266944.700	5	401724.330	5	74.5456	28.01	-2.48	1506.940	1.5	135652.930	1.5
74.2000	26.02	-3.48	66522.950	2.0	201293.750	2.0	74.5481	16.01	-4.56	24524.900	5	156666.450	1.5
74.2041	26.02	-4.61	84159.550	4.0	218923.080	3.0	74.5511	30.02	-2.94	147921.500	2.0	282057.600	3.0
74.2080	30.02	-2.77	147498.600	1.0	282254.900	1.0	74.5521	26.02	-2.03	79840.120	7.0	213974.420	6.0
74.2156	26.02	-2.26	66464.640	3.0	201207.290	4.0	74.5547	26.02	-4.04	79844.740	6.0	213974.420	6.0
74.2224	30.02	-3.75	147921.500	2.0	282651.800	1.0	74.5579	9.03	-3.13	452517.100	3.0	586641.000	2.0
74.2235	28.02	-4.34	79250.800	4.0	213979.000	3.0	74.5580	28.01	-2.10	1506.940	1.5	135630.630	2.5
74.2314	28.02	-2.15	78303.100	2.0	213017.000	2.0	74.5620	28.01	-2.13	1506.940	1.5	135623.590	1.5
74.2351	30.02	-2.77	147921.500	2.0	282628.600	2.0	74.5640	28.01	-2.41	1506.940	1.5	135619.910	1.5
74.2379	26.02	-2.65	66591.680	1.0	201293.750	2.0	74.5641	26.02	-5.67	436.200	3.0	134549.000	3.0
74.2381	26.02	-2.32	66464.640	3.0	201166.400	3.0	74.5645	17.01	-4.30	27877.800	0.0	161989.800	1.0
74.2393	26.02	-3.31	66464.640	3.0	201164.210	2.0	74.5650	28.01	-2.26	1506.940	1.5	135618.080	2.5
74.2412	27.02	-2.33	0.000	4.5	134696.100	5.5	74.5741	16.01	-1.13	24571.600	1.5	158666.450	1.5
74.2417	28.02	-2.46	2269.600	2.0	136964.800	3.0	74.5756	28.01	-2.81	1506.940	1.5	135599.000	5
74.2480	30.02	-2.54	147571.200	1.0	282254.900	1.0	74.5761	9.00	-2.34	0.000	5	134091.280	1.5
74.2513	27.02	-5.30	1451.300	2.5	136129.100	2.5	74.5841	7.01	0.05	32688.800	0.0	166765.660	1.0
74.2542	20.02	-4.92	213379.400	3.0	348051.860	4.0	74.5900	25.03	-3.93	53212.300	4.0	187278.500	5.0
74.2554	30.02	-2.56	147498.600	1.0	282169.000	2.0	74.6059	20.02	-1.75	213379.400	3.0	347417.050	3.0
74.2607	26.02	-2.74	436.200	3.0	135096.840	3.0	74.6208	28.02	-1.50	78303.100	2.0	212314.000	3.0
74.2626	23.02	-3.81	27727.800	3.5	162385.110	3.5	74.6235	28.01	-1.20	1506.940	1.5	135512.920	2.5
74.2638	26.02	-3.02	66522.950	2.0	201178.010	1.0	74.6238	26.02	-6.02	932.400	1.0	134937.840	2.0
74.2673	20.02	-4.86	213379.400	3.0	348028.130	3.0	74.6246	20.02	-1.10	213379.400	3.0	347383.510	4.0
74.2700	9.02	0.04	266561.850	1.5	401205.780	1.5	74.6247	26.02	-4.88	24558.800	5.0	158562.700	4.0
74.2714	26.02	-2.54	66522.950	2.0	201164.210	2.0	74.6291	28.02	-2.75	71067.000	3.0	205063.000	2.0
74.2730	25.02	-4.51	0.000	2.5	134638.390	1.5	74.6323	28.02	-1.84	1360.700	3.0	135351.000	2.0
74.2856	28.01	-2.18	1506.940	1.5	136122.610	2.5	74.6345	28.01	-2.44	1506.940	1.5	135493.260	1.5
74.2871	9.03	-3.32	452517.100	3.0	587130.000	2.0	74.6347	19.03	-5.54	1673.000	1.0	135659.000	1.0
74.2897	23.02	-4.25	27727.800	3.5	162335.880	3.5	74.6417	28.01	-5.11	0.000	2.5	133973.330	2.5
74.2954	30.02	-2.24	147571.200	1.0	282169.000	2.0	74.6428	9.00	-2.95	0.000	5	133971.380	1.5
74.3018	26.02	-2.96	66591.680	1.0	201178.010	1.0	74.6522	28.01	-1.91	1506.940	1.5	135461.550	2.5
74.3061	26.02	-3.16	66591.680	1.0	201170.100	0.0	74.6585	28.02	-2.28	71383.700	2.0	205327.000	1.0
74.3094	26.02	-4.98	66591.680	1.0	201164.210	2.0	74.6691	26.02	-2.97	436.200	3.0	134360.400	4.0
74.3147	27.02	-3.44	841.200	3.5	135404.000	4.5	74.6700	4.02	0.33	997466.000	0.0	113188.593	0.0
74.3163	9.03	-1.39	452081.100	2.0	586641.000	2.0	74.6717	9.00	-2.19	0.000	5	133919.490	1.5
74.3201	26.02	-3.21	84369.920	2.0	218923.080	3.0	74.6768	9.00	-3.52	0.000	5	133910.390	1.5
74.3207	26.02	-2.53	24940.900	4.0	159493.000	3.0	74.6786	26.03	-8.14	56367.900	5.5	190275.000	5.5
74.3224	26.02	-5.43	0.000	4.0	134549.000	3.0	74.6848	23.03	-1.39	13239.200	1.0	147135.200	2.0
74.3256	28.02	-2.48	2269.600	2.0	136812.700	2.0	74.6863	17.02	-3.60	18053.000	1.5	151946.400	5
74.3273	26.02	-3.36	436.200	3.0	134976.220	3.0	74.6962	28.01	-3.19	1506.940	1.5	135382.530	1.5
74.3273	26.02	-2.33	738.900	2.0	135279.040	2.0	74.6973	26.02	-2.29	79143.300	2.0	213017.000	2.0
74.3298	29.02	-1.74	2071.800	1.5	136607.300	2.5	74.6984	23.03	-1.88	151427.000	1.0	285298.600	1.0
74.3306	28.02	-1.45	78482.900	1.0	213017.000	2.0	74.6984	7.01	-0.38	15316.200	2.0	149187.800	1.0
74.3456	26.02	-2.36	35803.700	2.0	170310.600	3.0	74.7030	28.02	-2.04	23108.700	4.0	156972.200	3.0
74.3485	26.02	-4.54	436.200	3.0	134937.840	2.0	74.7048	23.02	-2.03	27727.800	3.5	161588.040	3.5
74.3547	26.02	-3.53	84369.920	2.0	218860.430	2.0	74.7100	28.01	-4.97	0.000	2.5	133850.830	3.5
74.3552	23.03	-3.50	151567.300	2.0	286056.900	3.0	74.7108	23.03	-2.31	151449.100	0.0	285298.600	1.0
74.3615	26.02	-2.57	738.900	2.0	135217.170	1.0	74.7189	17.02	-3.54	18118.600	2.5	151953.500	3.5
74.3676	25.03	-3.69	53212.300	4.0	187679.500	4.0	74.7221	26.02	-3.00	436.200	3.0	134265.420	2.0
74.3720	10.00	-1.90	0.000	0.0	134459.287	1.0	74.7222	28.02	-2.53	2269.600	2.0	136098.700	1.0
74.3962	28.02	-1.56	0.000	4.0	134415.400	4.0	74.7234	17.02	-6.52	18053.000	1.5	151879.900	1.5
74.3986	29.02	-1.48	2071.800	1.5	136482.900	1.5	74.7302	23.03	-2.62	153918.700	3.0	287733.400	2.0
74.4087	25.03	-4.92	53286.700	3.0	187679.500	4.0	74.7326	26.02	-2.78	738.900	2.0	134549.380	1.0
74.4154	28.01	-4.29	0.000	2.5	134380.820	3.5	74.7328	26.02	-5.85	738.900	2.0	134549.000	3.0
74.4165	20.02	-2.19	213379.400	3.0	347758.220	2.0	74.7409	17.02	-3.93	18053.000	1.5	151848.600	2.5
74.4203	23.03	-4.26	151427.000	1.0	285798.900	2.0	74.7431	25.03	-3.06	53212.300	4.0	187004.000	3.0
74.4227	26.02	-4.46	70725.010	3.0	205092.530	4.0	74.7446	26.02	-1.22	24940.900	4.0	158729.890	3.0
74.4267	26.02	-3.45	0.000	4.0	134360.400	4.0	74.7562	9.02	-3.29	356371.820	2.5	490140.000	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
74.8402	8.00	-1.95	0.000	2.0	133618.000	1.0	75.3021	23.03	-3.54	151567.300	2.0	284365.700	1.0
74.8402	8.00	-3.30	0.000	2.0	133618.000	2.0	75.3080	28.01	-2.89	1506.940	1.5	134294.990	2.5
74.8403	16.03	.10	0.000	.5	133617.900	.5	75.3095	26.02	-3.97	0.000	4.0	132785.360	4.0
74.8404	26.02	-2.04	79840.120	7.0	213457.820	7.0	75.3144	28.01	-5.91	1506.940	1.5	134283.760	.5
74.8408	26.02	-4.06	932.400	1.0	134549.380	1.0	75.3240	12.02	-2.15	431530.000	1.0	564289.800	1.0
74.8428	9.00	-3.63	0.000	.5	133613.410	.5	75.3273	28.02	-2.27	2269.600	2.0	135023.600	3.0
74.8430	26.02	-2.98	79844.740	6.0	213457.820	7.0	75.3301	28.01	-4.43	1506.940	1.5	134256.050	2.5
74.8564	23.02	-3.02	28746.800	2.5	162335.880	3.5	75.3308	28.01	-2.60	1506.940	1.5	134254.690	1.5
74.8573	26.02	-2.59	25142.400	3.0	158729.890	3.0	75.3324	9.00	-3.26	0.000	.5	132744.970	1.5
74.8580	28.02	-3.74	79250.800	4.0	212837.000	4.0	75.3337	28.01	-4.17	1506.940	1.5	134249.720	1.5
74.8630	9.00	-2.51	0.000	.5	133577.400	1.5	75.3366	18.01	-5.46	0.000	.5	132737.610	.5
74.8686	9.00	-4.12	404.100	1.5	133971.380	1.5	75.3392	28.02	-1.80	23108.700	4.0	155841.700	4.0
74.8718	9.00	-3.24	404.100	1.5	133965.680	2.5	75.3405	9.03	-1.56	542266.300	1.0	674997.000	1.0
74.8906	28.01	-4.43	0.000	2.5	133528.020	3.5	75.3405	9.03	-1.09	542266.300	1.0	674997.000	2.0
74.8908	9.00	-2.01	404.100	1.5	133931.810	2.5	75.3412	28.01	-6.18	0.000	2.5	132729.460	2.5
74.8915	26.02	-4.60	738.900	2.0	134265.420	2.0	75.3472	26.02	-4.38	86847.110	2.0	219566.080	3.0
74.8940	26.02	-2.48	1027.300	0.0	134549.380	1.0	75.3572	28.01	-2.81	1506.940	1.5	134208.300	2.5
74.8969	20.02	-2.32	213379.400	3.0	346896.260	2.0	75.3633	17.01	-4.42	11653.500	2.0	144344.000	2.0
74.8977	9.00	-3.03	404.100	1.5	133919.490	1.5	75.3713	14.01	-2.15	0.000	.5	132676.500	1.5
74.9028	9.00	-3.82	404.100	1.5	133910.390	.5	75.3729	26.02	-8.67	35803.700	2.0	168477.360	1.0
74.9052	26.03	-5.77	56011.600	4.5	189513.700	4.5	75.3763	16.03	-1.16	950.200	1.5	133617.900	.5
74.9147	28.02	-1.71	71841.900	1.0	205327.000	1.0	75.3810	23.03	-1.75	151567.300	2.0	284226.700	3.0
74.9290	8.00	-3.93	158.265	1.0	133618.000	1.0	75.3810	23.03	-3.35	13458.300	2.0	146117.700	1.0
74.9290	8.00	-2.06	158.265	1.0	133618.000	2.0	75.3811	26.02	-5.61	0.000	4.0	132659.170	4.0
74.9300	28.01	-2.97	1506.940	1.5	134964.780	1.5	75.3853	23.02	-4.29	27727.800	3.5	160379.640	2.5
74.9361	25.03	-5.86	53212.300	4.0	186659.400	4.0	75.3867	28.01	-4.46	1506.940	1.5	134156.280	1.5
74.9412	23.02	-3.33	27727.800	3.5	161165.810	2.5	75.3900	27.02	-2.93	23058.800	2.5	155702.400	1.5
74.9489	20.02	-1.45	214334.060	2.0	347758.220	2.0	75.3974	26.03	-6.64	57594.000	3.5	190224.600	3.5
74.9511	26.02	-4.76	25142.400	3.0	158562.700	4.0	75.3974	18.01	-5.45	0.000	.5	132630.650	1.5
74.9643	23.03	-1.02	13458.300	2.0	146855.100	3.0	75.3986	27.02	-3.16	1451.300	2.5	134079.800	1.5
74.9676	8.00	-4.44	226.977	0.0	133618.000	1.0	75.4012	27.02	-6.05	0.000	4.5	132623.800	3.5
74.9677	28.02	-4.83	0.000	4.0	133390.800	3.0	75.4049	26.02	-8.76	35803.700	2.0	168420.990	2.0
74.9751	9.03	-1.32	456884.300	1.0	590262.000	0.0	75.4119	9.00	-2.80	404.100	1.5	133009.130	.5
74.9779	25.03	-4.61	53286.700	3.0	186659.400	4.0	75.4180	9.00	-1.86	404.100	1.5	132998.380	1.5
74.9937	14.03	-1.32	160374.410	2.5	293718.990	2.5	75.4181	23.02	-4.93	27727.800	3.5	160321.890	2.5
74.9937	14.03	-1.02	160374.410	2.5	293718.990	3.5	75.4182	19.03	-3.38	38546.000	0.0	171140.000	1.0
74.9943	14.03	-1.17	160375.600	1.5	293718.990	2.5	75.4191	14.01	-1.83	0.000	.5	132592.400	.5
74.9979	28.02	-1.11	71067.000	3.0	204404.000	4.0	75.4217	18.03	-2.28	34856.200	.5	167444.000	.5
74.9996	19.03	-4.42	2325.000	0.0	135659.000	1.0	75.4222	27.02	-3.27	0.000	4.5	132587.000	4.5
75.0002	26.02	-2.74	932.400	1.0	134265.420	2.0	75.4222	26.02	-4.25	69747.400	0.0	202334.390	1.0
75.0017	28.02	-1.37	71383.700	2.0	204714.000	3.0	75.4349	26.02	-5.32	0.000	4.0	132564.710	5.0
75.0046	28.02	-4.71	0.000	4.0	133325.200	4.0	75.4353	10.03	-4.33	51141.000	2.5	643975.000	2.5
75.0094	9.03	-4.89	456884.300	1.0	590201.000	1.0	75.4363	20.02	-3.25	214334.060	2.0	346896.260	2.0
75.0110	23.03	-1.36	10959.300	2.0	144273.100	2.0	75.4404	26.03	-7.17	57720.000	4.5	190275.000	5.5
75.0172	23.03	-2.38	153918.700	3.0	287221.400	2.0	75.4454	26.02	-3.74	69788.190	1.0	202334.390	1.0
75.0190	23.02	-7.68	27727.800	3.5	161027.320	4.5	75.4478	26.02	-1.30	25142.400	3.0	157684.300	2.0
75.0223	16.03	.52	950.200	1.5	134243.900	1.5	75.4525	23.03	-2.60	151567.300	2.0	284101.100	3.0
75.0322	28.01	-4.30	1506.940	1.5	134783.140	2.5	75.4569	26.02	-9.39	35803.700	2.0	168329.670	3.0
75.0329	26.02	-1.45	25142.400	3.0	158417.310	2.0	75.4600	17.01	.68	11653.500	2.0	144174.000	3.0
75.0441	9.00	-3.70	404.100	1.5	133659.120	.5	75.4641	23.03	-1.94	151427.000	1.0	283940.400	2.0
75.0567	27.02	-1.72	23058.800	2.5	156291.400	2.5	75.4671	19.03	-3.32	1673.000	1.0	134181.000	2.0
75.0620	9.00	-2.81	0.000	.5	133223.250	.5	75.4682	27.02	-3.48	0.000	4.5	132506.200	5.5
75.0632	28.02	-1.77	71841.900	1.0	205063.000	2.0	75.4690	26.02	-3.30	69695.730	4.0	202200.510	3.0
75.0639	9.00	-2.54	404.100	1.5	133623.850	1.5	75.4691	26.03	-5.24	57720.000	4.5	190224.600	3.5
75.0698	28.01	-3.79	0.000	2.5	133209.300	2.5	75.4720	9.02	-1.73	324876.720	1.5	457376.180	.5
75.0698	9.00	-3.92	404.100	1.5	133613.410	.5	75.4736	26.02	-3.70	69837.760	2.0	202334.390	1.0
75.0742	12.02	-2.09	431530.000	1.0	564731.600	1.0	75.4905	28.02	-4.08	82277.000	1.0	214744.000	2.0
75.0806	28.01	-5.44	0.000	2.5	133190.190	1.5	75.4908	28.01	-2.59	1506.940	1.5	133973.330	2.5
75.0807	23.03	-1.14	13239.200	1.0	146429.300	2.0	75.4952	9.03	-2.60	460215.200	0.0	592674.000	1.0
75.0866	9.00	-1.53	404.100	1.5	133583.570	2.5	75.4986	26.02	-4.22	73727.640	2.0	206180.410	3.0
75.0883	23.02	-3.82	28746.800	2.5	161923.280	2.5	75.5026	26.02	-3.58	69836.830	3.0	202282.650	2.0
75.0901	9.00	-2.87	404.100	1.5	133577.400	1.5	75.5031	26.02	-4.44	69837.760	2.0	202282.650	2.0
75.0916	28.02	-2.24	79143.300	2.0	212314.000	3.0	75.5179	23.02	-2.22	28746.800	2.5	161165.810	2.5
75.0920	28.01	-2.24	0.000	2.5	133169.920	3.5	75.5208	9.03	-1.06	542583.200	3.0	674997.000	2.0
75.0986	28.02	-1.76	0.000	4.0	133158.300	3.0	75.5215	26.03	-6.33	57594.000	3.5	190006.700	2.5
75.1014	9.00	-2.39	404.100	1.5	133557.430	2.5	75.5225	18.03	-.64	35033.100	1.5	167444.000	.5
75.1020	23.02	-5.12	27727.800	3.5	160879.980	4.5	75.5298	20.02	-2.51	214334.060	2.0	346732.190	1.0
75.1056	26.03	-7.68	56367.900	5.5	189513.700	4.5	75.5349	14.01	-1.45	287.320	1.5	132676.500	1.5
75.1091	9.03	-4.73	456884.300	1.0	590024.000	2.0	75.5377	26.02	-4.52	73849.100	1.0	206233.310	2.0
75.1120	12.02	-1.69	431530.000	1.0	564664.600	2.0	75.5440	23.03	-3.22	151567.300	2.0	283940.400	2.0
75.1187	9.02	-1.89	356371.820	2.5	489494.530	3.5	75.5471	23.03	-4.57	153918.700	3.0	286286.500	4.0
75.1208	12.02	-2.29	426868.100	1.0	559987.100	1.0	75.5494	26.02	-4.68	69836.830	3.0	202200.510	3.0
75.1343	28.02	-1.10	0.000	4.0	133095.000	3.0	75.5500	26.02	-4.06	69837.760	2.0	202200.510	3.0
75.1411	20.02	-2.64	214334.060	2.0	347417.050	3.0	75.5516	26.02	-4.46	73935.960	0.0	206295.810	1.0
75.1420	28.02	-3.91	2269.600	2.0	135351.000	2.0	75.5577	26.02	-4.37	436.200	3.0	132785.360	4.0
75.1451	15.01	-2.32	8882.600	2.0	141958.400	1.0	75.5624	9.00	-2.57	404.100	1.5	132744.970	1.5
75.1523	28.02	-3.82	79250.800	4.0	212314.000	3.0	75.5768	9.03	-1.08	542681.200	2.0	674997.000	1.0
75.1542	25.02	-8.46	0.000	2.5	133059.840	3.5	75.5768	9.03	-1.81	542681.200	2.0	674997.000	2.0
75.1571	28.02	-1.01	1360.700	3.0	134415.400	4.0	75.5801	8.00	-2.59	0.000	2.0	132310.000	1.0
75.1647	26.02	-1.32	24940.900	4.0	157982.000	3.0	75.5801	8.					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
75.6906	9.03	-1.05	542681.200	2.0	674798.000	3.0	76.2064	28.01	-1.89	1506.940	1.5	132729.480	2.5
75.7025	28.02	-4.55	75646.900	4.0	207743.000	3.0	76.2104	26.02	-4.61	73727.640	2.0	204943.260	2.0
75.7100	8.00	-2.44	226.977	0.0	132310.000	1.0	76.2108	28.02	-3.49	82277.000	1.0	213492.000	1.0
75.7117	26.02	-6.21	0.000	4.0	132079.910	3.0	76.2200	18.01	-5.73	1431.410	1.5	132630.650	1.5
75.7183	15.01	-3.32	8882.600	2.0	140951.000	3.0	76.2205	26.02	-3.71	35803.700	2.0	167002.000	2.0
75.7201	28.02	-9.97	2269.600	2.0	134334.900	3.0	76.2296	26.03	-5.52	57720.000	4.5	188902.700	3.5
75.7263	27.02	-1.09	24236.800	1.5	156291.400	2.5	76.2355	27.02	-2.77	1451.300	2.5	132623.800	3.5
75.7384	9.03	-4.15	460640.600	2.0	592674.000	1.0	76.2355	26.02	-4.08	932.400	1.0	132104.940	2.0
75.7403	28.02	-1.78	1360.700	3.0	133390.800	3.0	76.2473	28.02	-4.87	82826.900	4.0	213979.000	3.0
75.7768	26.02	-4.58	73727.640	2.0	205694.090	1.0	76.2537	27.02	-1.25	1451.300	2.5	132592.400	1.5
75.7780	28.02	-1.68	1360.700	3.0	133325.200	4.0	76.2581	28.01	-2.45	0.000	2.5	131133.580	2.5
75.7785	28.02	-4.39	2269.600	2.0	134233.100	2.0	76.2631	28.01	-2.31	0.000	2.5	131124.960	3.5
75.7951	23.02	-4.66	28746.800	2.5	160681.480	3.5	76.2653	28.02	-2.84	2269.600	2.0	133390.800	3.0
75.8037	26.03	-7.13	57594.000	3.5	189513.700	4.5	76.2752	12.02	-2.40	431530.000	1.0	562634.200	1.0
75.8041	28.02	-4.48	14031.600	2.0	145950.500	1.0	76.2758	28.01	-2.71	0.000	2.5	131103.180	2.5
75.8185	16.05	-1.77	451785.000	1.5	583679.000	1.5	76.2761	26.02	-3.28	87901.870	3.0	219004.530	4.0
75.8196	23.03	-3.34	151567.300	2.0	283459.400	3.0	76.2787	27.02	-4.31	0.000	4.5	131098.200	4.5
75.8224	27.02	-4.73	0.000	4.5	131887.100	4.0	76.2810	26.02	-4.00	73849.100	1.0	204943.260	2.0
75.8264	23.03	-3.62	153918.700	3.0	285798.900	2.0	76.2917	28.01	-3.68	0.000	2.5	131075.780	1.5
75.8317	16.05	-4.82	451808.000	2.5	583679.000	1.5	76.2951	28.02	-3.53	2269.600	2.0	133339.700	1.0
75.8469	27.02	-2.65	1866.800	1.5	133711.400	2.5	76.3003	10.03	-4.63	511411.000	2.5	642472.000	2.5
75.8524	28.01	-5.22	0.000	2.5	131834.940	2.5	76.3021	26.02	-4.39	73849.100	1.0	204907.130	1.0
75.8554	23.02	-5.33	28746.800	2.5	160576.620	3.5	76.3043	27.02	-1.72	0.000	4.5	131054.200	5.5
75.8600	5.02	-4.55	48381.000	0.0	180202.777	0.0	76.3069	18.01	-5.31	1431.410	1.5	132481.140	2.5
75.8677	8.04	-4.65	82258.000	0.0	214066.398	0.0	76.3091	27.02	-2.34	841.200	3.5	131887.100	4.5
75.8707	28.02	-3.77	75123.800	5.0	206927.000	5.0	76.3110	27.02	-1.81	841.200	3.5	131883.900	2.5
75.8739	28.02	-4.32	1360.700	3.0	133158.300	3.0	76.3116	15.01	-1.64	8882.600	2.0	139924.300	2.0
75.8762	26.03	-5.37	57720.000	4.5	189513.700	4.5	76.3139	27.02	-4.49	1451.300	2.5	132489.000	2.5
75.8769	28.02	-4.51	0.000	4.0	131792.400	4.0	76.3161	23.03	-3.58	13239.200	1.0	144273.100	2.0
75.8826	27.02	-3.91	841.200	3.5	132623.800	3.5	76.3235	26.02	-3.86	87901.870	3.0	218923.060	3.0
75.8934	15.01	-2.82	0.000	0.0	131763.700	1.0	76.3307	26.02	-5.09	436.200	3.0	131445.030	2.0
75.8992	26.02	-4.81	87901.870	3.0	219655.550	2.0	76.3527	26.02	-4.22	73935.960	0.0	204907.130	1.0
75.9020	27.02	-4.11	15201.900	2.5	146950.700	2.5	76.3600	26.02	-4.02	87901.870	3.0	218860.430	2.0
75.9037	27.02	-2.54	841.200	3.5	132587.000	4.5	76.3657	26.02	-4.25	20688.400	1.0	151637.300	1.0
75.9088	28.02	-4.44	75646.900	4.0	207384.000	4.0	76.3678	28.02	-3.68	83033.800	2.0	213979.000	3.0
75.9104	28.02	-1.92	1360.700	3.0	133095.000	3.0	76.3679	29.01	-7.45	0.000	0.0	130945.000	1.0
75.9239	26.02	-5.21	0.000	4.0	131710.790	5.0	76.3731	24.02	-7.00	181.900	2.0	131118.100	3.0
75.9243	28.02	-4.86	83033.800	2.0	214744.000	2.0	76.3811	15.01	-1.88	8882.600	2.0	139805.100	3.0
75.9288	28.01	-5.24	1506.940	1.5	133209.300	2.5	76.3856	22.03	-1.33	127912.500	5.5	258827.200	1.5
75.9292	25.02	-5.40	0.000	2.5	131701.690	1.5	76.3875	24.02	-5.96	355.800	3.0	131267.300	4.0
75.9398	28.01	-3.88	1506.940	1.5	133190.190	1.5	76.4008	28.02	-1.30	2269.600	2.0	133158.300	3.0
75.9440	8.04	-4.74	82121.000	0.0	213796.972	0.0	76.4041	18.02	-4.68	14010.000	2.0	144892.950	3.0
75.9482	26.02	-4.20	436.200	3.0	132104.940	2.0	76.4082	18.02	-4.75	14010.000	2.0	144885.970	2.0
75.9508	26.02	-3.40	87901.870	3.0	219566.080	3.0	76.4095	24.02	-5.29	575.000	4.0	131448.800	5.0
75.9556	23.03	-1.66	155565.500	1.0	287221.400	2.0	76.4100	18.02	-4.98	14010.000	2.0	144882.930	1.0
75.9603	27.02	-1.40	841.200	3.5	132489.000	2.5	76.4268	28.02	-3.88	82172.900	3.0	213017.000	2.0
75.9626	26.02	-5.52	436.200	3.0	132079.910	3.0	76.4330	26.03	-5.92	57594.000	3.5	188427.500	2.5
75.9645	25.03	-5.17	53260.700	2.0	184901.200	2.0	76.4375	27.02	-1.36	1451.300	2.5	132277.100	3.5
75.9689	23.02	-3.14	28746.800	2.5	160379.640	2.5	76.4378	28.02	-3.20	2269.600	2.0	133095.000	3.0
75.9744	16.01	-5.25	24524.900	5.5	156148.190	5.5	76.4439	23.03	-3.36	13458.300	2.0	144273.100	2.0
75.9795	25.03	-4.29	53286.700	3.0	184901.200	2.0	76.4515	27.02	-1.51	0.000	4.5	130801.900	4.5
75.9799	27.02	-2.99	15201.900	2.5	146815.600	3.5	76.4550	28.02	-1.98	1360.700	3.0	132156.600	4.0
75.9882	9.03	-2.91	460640.600	2.0	592240.000	3.0	76.4628	15.04	-2.56	345398.400	1.5	476181.000	1.5
75.9885	15.01	-3.48	164.800	1.0	131763.700	1.0	76.4628	15.04	-1.86	345398.400	1.5	476181.000	5.5
75.9985	27.02	-1.90	0.000	4.5	131581.600	3.5	76.4656	15.04	-1.60	345403.300	2.5	476181.000	1.5
76.0014	16.01	-5.25	24571.600	1.5	156148.190	5.5	76.4699	20.02	-2.19	213379.400	3.0	344149.810	2.0
76.0022	23.02	-3.76	28746.800	2.5	160321.890	2.5	76.4714	25.02	-2.49	62988.920	3.5	193756.790	4.5
76.0051	28.02	-1.72	2269.600	2.0	133839.800	1.0	76.4746	24.02	-6.86	355.800	3.0	131118.100	3.0
76.0169	16.01	-4.48	24571.600	1.5	156121.330	2.5	76.4815	25.02	-4.08	62747.500	2.5	193498.070	3.5
76.0229	8.04	-4.87	82258.000	0.0	213797.312	0.0	76.4875	27.02	-4.78	841.200	3.5	131581.600	3.5
76.0235	27.02	-1.66	0.000	4.5	131538.300	4.5	76.4877	28.02	-3.02	82277.000	1.0	213017.000	2.0
76.0323	10.03	-4.00	511411.000	2.5	642934.000	3.5	76.4894	15.03	-3.11	189389.000	1.0	320126.000	2.0
76.0326	27.02	-2.04	15628.200	1.5	146950.700	2.5	76.4894	15.03	-2.10	189389.000	2.0	320126.000	2.0
76.0389	26.02	-3.40	69695.730	4.0	201207.290	4.0	76.4894	15.03	-1.18	189389.000	3.0	320126.000	2.0
76.0424	26.02	-4.78	69788.190	1.0	201293.750	2.0	76.4928	25.02	-8.45	0.000	2.5	130731.310	3.5
76.0431	16.01	-3.52	24524.900	5.5	156029.280	1.5	76.4961	27.02	-4.48	1866.800	1.5	132592.400	1.5
76.0445	8.04	-4.17	82564.000	0.0	214065.950	0.0	76.5004	28.01	-5.62	1506.940	1.5	132225.150	1.5
76.0455	28.02	-1.82	0.000	4.0	131500.300	5.0	76.5075	26.02	-7.44	738.900	2.0	131445.030	2.0
76.0457	18.03	-4.61	34856.200	5.5	166356.000	1.5	76.5128	27.02	-2.20	841.200	3.5	131538.300	4.5
76.0488	28.01	-2.88	1506.940	1.5	133001.470	1.5	76.5140	7.03	-1.19	0.000	0.0	130695.036	0.0
76.0598	28.01	-3.28	1506.940	1.5	132982.510	1.5	76.5144	26.02	-3.29	35803.700	2.0	166498.000	3.0
76.0626	26.02	-3.86	69695.730	4.0	201166.350	3.0	76.5156	24.02	-6.29	575.000	4.0	131267.300	4.0
76.0655	27.02	-1.91	24236.800	1.5	155702.400	1.5	76.5260	15.03	-2.41	189389.000	1.0	320063.500	1.0
76.0701	16.01	-5.63	24571.600	1.5	156029.280	1.5	76.5260	15.03	-4.15	189389.000	2.0	320063.500	1.0
76.0702	28.02	-2.61	1360.700	3.0	132818.300	2.0	76.5302	25.02	-3.56	62568.080	1.5	193235.430	2.5
76.0705	26.02	-4.26	69836.830	3.0	201293.750	2.0	76.5321	28.02	-3.61	82172.900	3.0	212837.000	4.0
76.0827	27.02	-4.49	841.200	3.5	132277.100	3.5	76.5322	15.03	-1.48	189389.000	2.0	320053.000	1.0
76.0858	26.02	-4.11	69747.400	0.0	201178.010	1.0	76.5322	15.03	-2.11	189389.000	1.0	320053.000	1.0
76.0913	28.01	-2.41	1506.940	1.5	132927.970	1.5	76.5567	27.02	-1.27	1866.800	1.5	132489.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
76.7413	23.03	-2.81	153918.700	3.0	284226.700	3.0	77.2138	26.02	-3.57	19404.800	2.0	148915.300	1.0
76.7543	16.03	-4.58	94148.100	2.5	224434.000	1.5	77.2155	26.02	-4.35	89907.850	4.0	219415.610	5.0
76.7550	25.02	-2.98	62456.990	5	192741.670	5	77.2402	15.02	-3.96	57454.500	2.5	186920.700	1.5
76.7713	27.02	-5.54	841.200	3.5	131098.200	4.5	77.2449	25.02	-3.27	62456.990	2.5	191915.430	5
76.7717	26.02	-6.09	0.000	4.0	130256.270	5.0	77.2453	27.02	-6.39	1451.300	2.5	130909.000	1.5
76.7775	25.02	-2.47	62988.920	3.5	193235.430	2.5	77.2494	20.02	-2.00	214334.060	2.0	343784.960	1.0
76.7780	9.03	-3.05	456884.300	1.0	587130.000	2.0	77.2535	26.02	-4.56	69695.730	4.0	199139.760	5.0
76.7817	26.02	-4.95	88923.070	6.0	219162.420	6.0	77.2559	28.02	-4.63	78303.100	2.0	207743.000	3.0
76.7852	23.03	-4.62	155565.500	1.0	285798.900	2.0	77.2634	15.01	-4.83	8882.600	2.0	138310.000	2.0
76.7887	28.01	-2.11	0.000	2.5	130227.520	2.5	77.2645	26.02	-4.93	69836.830	3.0	199262.440	3.0
76.7897	28.01	-1.87	0.000	2.5	130225.870	3.5	77.2646	25.02	-3.41	62747.500	2.5	192172.890	2.5
76.7974	25.02	-2.25	63285.370	4.5	193498.070	3.5	77.2778	25.02	-2.86	62988.920	3.5	192392.200	3.5
76.7997	28.01	-2.18	0.000	2.5	130208.890	3.5	77.2897	9.03	-6.65	460640.600	2.0	590024.000	2.0
76.8044	25.02	-2.84	62747.500	2.5	192948.290	1.5	77.2914	25.02	-2.50	63285.370	4.5	192665.800	4.5
76.8065	28.01	-3.00	0.000	2.5	130197.230	1.5	77.2968	26.02	-3.35	76956.790	3.0	206328.220	3.0
76.8141	28.01	-1.93	0.000	2.5	130184.390	2.5	77.2988	26.02	-4.48	76956.790	3.0	206324.890	2.0
76.8145	27.02	-2.56	0.000	4.5	130183.800	3.5	77.3057	17.01	-4.91	11653.500	2.0	141010.000	2.0
76.8153	23.03	-4.87	153918.700	3.0	284101.100	3.0	77.3112	25.02	-2.99	62568.080	1.5	191915.430	5
76.8202	28.01	-2.19	0.000	2.5	130174.030	1.5	77.3140	27.02	-1.43	841.200	3.5	130183.800	3.5
76.8205	25.02	-3.27	62568.080	1.5	192741.670	5	77.3265	26.02	-3.21	30716.200	2.0	160037.900	2.0
76.8208	26.02	-5.18	20481.900	4.0	150654.900	3.0	77.3323	26.02	-5.43	30725.800	1.0	160037.900	2.0
76.8397	28.02	-4.50	82172.900	3.0	212314.000	3.0	77.3331	26.02	-9.95	40999.870	2.0	170310.600	3.0
76.8408	28.02	-4.37	84604.800	1.0	214744.000	2.0	77.3353	26.02	-4.82	89697.520	3.0	219004.530	4.0
76.8428	22.03	-1.11	128730.900	1.5	258866.700	2.5	77.3368	26.02	-2.20	76956.790	3.0	206261.330	4.0
76.8442	26.02	-3.88	83429.610	6.0	213563.080	5.0	77.3462	28.02	-1.12	16661.000	2.0	145950.500	1.0
76.8447	25.02	-2.76	62747.500	2.5	192880.160	3.5	77.3514	28.02	-3.93	83033.800	2.0	212314.000	3.0
76.8461	27.02	-6.61	1451.300	2.5	131581.600	3.5	77.3514	28.02	-3.46	75123.800	5.0	204404.000	4.0
76.8516	26.02	-5.04	19404.800	2.0	149525.630	2.0	77.3536	26.02	-3.24	76956.790	3.0	206233.310	2.0
76.8628	28.01	-3.64	8393.900	4.5	138495.840	4.5	77.3603	25.02	-2.99	62747.500	2.5	192012.750	1.5
76.8661	22.03	-2.06	128730.900	1.5	258827.200	1.5	77.3603	23.03	-3.93	18391.200	4.0	147656.500	3.0
76.9064	26.02	-3.16	83429.610	6.0	213457.820	7.0	77.3697	26.02	-2.56	77075.300	1.0	206324.890	2.0
76.9102	23.03	-4.04	153918.700	3.0	283940.400	2.0	77.3839	26.02	-2.36	77102.430	2.0	206328.220	3.0
76.9130	27.02	-8.83	1866.800	1.5	131883.900	2.5	77.3852	26.02	-2.38	76956.790	3.0	206180.410	3.0
76.9154	18.02	-3.8	14010.000	2.0	144023.000	1.0	77.3859	26.02	-3.16	77102.430	2.0	206324.890	2.0
76.9181	25.02	-3.05	62568.080	1.5	192576.420	2.5	77.3871	26.02	-2.87	77075.300	1.0	206295.810	1.0
76.9222	15.02	-4.31	56919.300	5	186920.700	1.5	77.4033	26.02	-3.20	77102.430	2.0	206295.810	1.0
76.9301	28.01	-6.44	0.000	2.5	129988.050	2.5	77.4038	26.02	-3.25	21462.200	4.0	150654.900	3.0
76.9315	9.03	-2.05	460215.200	0.0	590201.000	1.0	77.4087	27.02	-1.57	17766.200	3.5	146950.700	2.5
76.9330	28.02	-4.85	83033.800	2.0	213017.000	2.0	77.4090	25.02	-3.11	62988.920	3.5	192172.890	2.5
76.9353	8.00	-2.23	0.000	2.0	129979.384	1.0	77.4113	26.02	-1.58	30857.800	3.0	160037.900	2.0
76.9361	23.03	-4.31	18391.200	4.0	148369.200	4.0	77.4181	28.01	-6.99	8393.900	4.5	137562.740	3.5
76.9408	8.00	-2.75	0.000	2.0	129970.000	2.0	77.4199	28.01	-2.00	9330.040	3.5	138495.840	4.5
76.9463	27.02	-1.49	841.200	3.5	130801.900	4.5	77.4245	26.02	-3.46	77075.300	1.0	206233.310	2.0
76.9504	28.02	-3.80	0.000	4.0	129953.900	3.0	77.4408	26.02	-2.92	77102.430	2.0	206233.310	2.0
76.9550	11.02	-4.92	414281.000	2.5	544227.000	1.5	77.4522	8.04	-6.73	158798.000	0.0	287909.891	0.0
76.9772	25.02	-3.40	62456.990	5	192365.520	1.5	77.4552	25.02	-3.36	63285.370	4.5	192392.200	3.5
76.9875	25.02	-2.37	62988.920	3.5	192880.160	3.5	77.4674	17.01	-1.78	11653.500	2.0	140740.000	1.0
76.9964	9.03	-1.51	460385.800	1.0	590262.000	0.0	77.4725	26.02	-3.42	77102.430	2.0	206180.410	3.0
77.0036	26.02	-4.31	69836.830	3.0	197700.830	4.0	77.4791	28.02	-4.03	75646.900	4.0	204714.000	3.0
77.0050	15.01	-4.51	8882.600	2.0	138744.300	3.0	77.4813	28.01	-4.05	1506.940	1.5	130570.420	1.5
77.0191	27.02	-9.98	16977.600	4.5	146815.600	3.5	77.4871	11.02	-4.64	415173.200	1.5	544227.000	1.5
77.0217	28.02	-5.52	14031.600	2.0	143865.200	3.0	77.4897	27.02	-2.02	17766.200	3.5	146815.600	3.5
77.0237	26.02	-2.13	70694.030	5.0	200524.120	5.0	77.4940	27.02	-2.47	1866.800	1.5	130909.000	1.5
77.0244	25.02	-2.49	62747.500	2.5	192576.420	2.5	77.5264	26.02	-4.04	90483.590	3.0	219471.970	4.0
77.0246	27.02	-2.32	1451.300	2.5	131279.900	3.5	77.5339	26.02	-2.23	70725.010	3.0	199700.830	4.0
77.0260	8.00	-2.41	158.265	1.0	129984.553	0.0	77.5342	8.02	-4.24	294001.600	2.0	422977.000	3.0
77.0262	11.05	-6.61	74434.000	0.0	204260.000	1.0	77.5358	28.02	-1.85	16977.800	1.0	145950.500	1.0
77.0291	8.00	-4.44	158.265	1.0	129979.384	1.0	77.5362	26.02	-3.49	70728.750	4.0	199700.830	4.0
77.0295	26.02	-3.41	70694.030	5.0	200514.460	4.0	77.5393	26.02	-3.37	70694.030	5.0	199660.840	5.0
77.0323	20.02	-3.02	214334.060	2.0	344149.810	2.0	77.5455	27.02	-1.22	1451.300	2.5	130407.800	2.5
77.0326	9.03	-1.34	460385.800	1.0	590201.000	1.0	77.5464	26.02	-5.07	21699.900	3.0	150654.900	3.0
77.0346	8.00	-1.71	158.265	1.0	129970.000	2.0	77.5468	17.02	-3.43	18118.500	2.5	147073.000	3.5
77.0431	25.02	-2.68	62568.080	1.5	192365.520	1.5	77.5486	28.02	-3.89	1360.700	3.0	130312.100	4.0
77.0444	26.02	-3.37	70728.750	4.0	200524.120	5.0	77.5494	24.03	-2.77	36490.000	3.5	165440.000	4.5
77.0446	15.02	-4.97	57125.800	1.5	186920.700	1.5	77.5524	15.01	-2.30	8882.600	2.0	137827.600	1.0
77.0465	9.02	-2.51	360348.280	5	490140.000	1.5	77.5549	26.02	-2.04	70694.030	5.0	199634.920	6.0
77.0479	26.02	-3.53	70725.010	3.0	200514.460	4.0	77.5598	27.02	-3.09	1866.800	1.5	130799.500	5
77.0501	26.02	-2.25	70728.750	4.0	200514.460	4.0	77.5602	26.02	-2.13	70728.750	4.0	199660.840	5.0
77.0522	28.01	-4.04	0.000	2.5	129782.070	3.5	77.5738	26.02	-2.23	70694.030	5.0	199603.610	4.0
77.0534	26.02	-4.34	21857.200	2.0	151637.300	1.0	77.5758	27.02	-1.92	841.200	3.5	129747.300	2.5
77.0535	26.02	-2.34	70725.010	3.0	200504.990	3.0	77.5819	9.03	-1.96	551098.000	2.0	679994.000	3.0
77.0557	26.02	-3.41	70728.750	4.0	200504.990	3.0	77.5833	9.03	-8.81	460215.200	0.0	589109.000	1.0
77.0656	29.01	-5.69	0.000	0.0	129759.600	1.0	77.5872	28.02	-3.23	84604.800	1.0	213492.000	1.0
77.0673	9.03	-3.46	456884.300	1.0	586641.000	2.0	77.5916	9.03	-1.48	550918.000	1.0	679798.000	1.0
77.0699	8.00	-2.34	226.977	0.0	129979.384	1.0	77.5916	9.03	-1.96	550918.000	1.0	679798.000	2.0
77.0790	8.00	-3.26	0.000	2.0	129737.052	3.0	77.5924	26.02	-4.46	70725.010	3.0	199603.610	4.0
77.0813	23.03	-2.84	155565.500	1.0	285298.600	1.0	77.5947	26.02	-3.45	70728.750	4.0	199603.610	4.0
77.0844	28.01	-1.49	8393.900	4.5	138121.880	4.5	77.5965	7.01	-5.6	15316.200	2.0	144187.940	2.0
77.0969	27.02	-1.82	0.000	4.5	129706.900	3.5	77.5974	26.02	-3.42	70725.010	3		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
77.6909	26.02	-4.86	76956.790	3.0	205672.010	4.0	78.1477	28.02	-1.06	16661.600	2.0	144624.400	1.0
77.6925	26.02	-3.16	20300.800	5.0	149013.360	4.0	78.1648	15.01	-1.09	0.000	0.0	127934.900	1.0
77.6927	9.00	-2.00	0.000	.5	128712.300	1.5	78.1649	9.00	-3.25	404.100	1.5	128338.720	.5
77.6933	16.01	-3.80	24571.600	1.5	153282.800	2.5	78.1742	15.02	-5.59	57125.800	1.5	185045.200	2.5
77.7001	9.03	-1.96	551098.000	2.0	679798.000	1.0	78.1784	22.03	-5.57	0.000	1.5	127912.500	.5
77.7001	9.03	-1.29	551098.000	2.0	679798.000	2.0	78.1889	28.01	-3.47	0.000	2.5	127895.300	3.5
77.7019	17.02	-3.90	18053.000	1.5	146749.900	2.5	78.1980	27.02	-7.72	1866.800	1.5	129747.300	2.5
77.7037	24.02	-7.03	59.900	1.0	128753.900	2.0	78.2031	26.02	-1.01	30857.800	3.0	158729.690	3.0
77.7059	28.01	-1.81	1506.940	1.5	130197.230	1.5	78.2064	26.02	-4.42	738.900	2.0	128605.650	1.0
77.7125	29.02	-6.63	0.000	2.5	128679.400	2.5	78.2118	24.03	-2.94	37062.000	2.5	164920.000	3.5
77.7137	28.01	-2.37	1506.940	1.5	130184.390	2.5	78.2206	26.02	-3.07	30886.400	4.0	158729.890	3.0
77.7141	16.01	-2.95	24524.900	.5	153201.720	1.5	78.2315	26.02	-3.22	21699.900	3.0	149525.630	2.0
77.7200	28.01	-2.55	1506.940	1.5	130174.030	1.5	78.2376	9.00	-2.03	404.100	1.5	128219.830	1.5
77.7358	28.01	-2.90	1506.940	1.5	130147.870	.5	78.2560	15.01	-6.64	164.800	1.0	127950.600	2.0
77.7392	26.02	-3.13	30857.800	3.0	159493.000	3.0	78.2590	9.00	-3.56	404.100	1.5	128184.990	.5
77.7393	26.02	-4.53	77102.430	2.0	205737.510	2.0	78.2656	15.01	-7.72	164.800	1.0	127934.900	1.0
77.7416	17.02	-3.83	18118.600	2.5	146749.900	2.5	78.2665	26.02	-1.16	82846.590	4.0	210615.210	3.0
77.7423	16.01	-2.78	24571.600	1.5	153201.720	1.5	78.2858	12.03	-4.15	597071.900	1.5	724809.000	.5
77.7431	16.01	-2.42	24524.900	.5	153153.660	.5	78.2862	9.00	-1.16	404.100	1.5	128140.480	2.5
77.7436	9.03	-1.04	551366.000	3.0	679994.000	3.0	78.2867	15.01	-1.19	164.800	1.0	127900.400	0.0
77.7523	26.02	-1.42	82001.730	2.0	210615.210	3.0	78.2920	17.01	-7.79	0.000	2.0	127726.900	1.0
77.7533	9.00	-3.39	0.000	.5	128611.920	1.5	78.2963	15.02	-6.61	56919.300	.5	184639.300	1.5
77.7564	26.02	-4.35	73727.640	2.0	202334.390	1.0	78.2971	9.00	-2.50	404.100	1.5	128122.719	1.5
77.7565	26.02	-4.01	30886.400	4.0	159493.000	3.0	78.3044	26.02	-3.58	21208.500	0.0	148915.300	1.0
77.7572	17.01	-9.93	11653.500	2.0	140259.000	2.0	78.3055	26.02	-1.20	30857.800	3.0	158562.700	4.0
77.7603	24.02	-6.41	181.900	2.0	128782.200	3.0	78.3079	26.02	-1.16	30716.200	2.0	158417.310	2.0
77.7645	28.02	-3.43	2269.600	2.0	130863.000	1.0	78.3107	17.01	-5.53	11653.500	2.0	139350.000	1.0
77.7646	28.02	-3.07	1360.700	3.0	129953.900	3.0	78.3137	26.02	-3.78	30725.800	1.0	158417.310	2.0
77.7713	16.01	-2.73	24571.600	1.5	153153.660	.5	78.3159	28.02	-5.09	2269.600	2.0	129957.600	1.0
77.7774	24.02	-7.46	181.900	2.0	128753.900	2.0	78.3182	28.02	-4.32	2269.600	2.0	129953.900	3.0
77.7877	26.02	-3.02	73727.640	2.0	202282.650	2.0	78.3185	27.02	-1.10	841.200	3.5	128524.900	2.5
77.7895	28.02	-4.55	1360.700	3.0	129912.800	2.0	78.3185	9.00	-2.09	404.100	1.5	128087.829	2.5
77.7923	9.03	-1.73	460640.600	2.0	589188.000	2.0	78.3194	28.01	-4.42	8393.900	4.5	136076.260	4.5
77.7962	27.02	-1.00	1866.800	1.5	130407.800	2.5	78.3231	26.02	-3.16	30886.400	4.0	158562.700	4.0
77.8020	26.02	-3.05	20481.900	4.0	149013.360	4.0	78.3249	26.02	-3.88	932.400	1.0	128605.650	1.0
77.8069	9.00	-2.07	0.000	.5	128523.280	1.5	78.3279	26.02	-4.34	21857.200	2.0	149525.630	2.0
77.8088	9.00	-2.67	0.000	.5	128520.220	.5	78.3413	28.02	-1.24	16977.800	1.0	144624.400	1.0
77.8199	26.02	-4.88	69836.830	3.0	198338.620	4.0	78.3434	28.02	-3.70	2269.600	2.0	129912.800	2.0
77.8249	24.02	-6.26	355.800	3.0	128849.400	4.0	78.3699	15.01	-7.76	0.000	0.0	127600.000	1.0
77.8285	26.02	-4.43	70725.010	3.0	199212.720	4.0	78.3751	15.01	-2.18	164.800	1.0	127756.300	2.0
77.8299	26.02	-4.11	73849.100	1.0	202334.390	1.0	78.3756	15.02	-2.21	57454.500	2.5	185045.200	2.5
77.8323	26.02	-3.88	436.200	3.0	128917.510	2.0	78.3832	26.02	-4.18	1027.300	0.0	128605.650	1.0
77.8325	28.01	-5.23	1506.940	1.5	129988.050	2.5	78.3907	26.02	-3.92	73727.640	2.0	201293.750	2.0
77.8360	27.02	-2.68	15201.900	2.5	143677.100	3.5	78.3916	26.02	-1.19	82846.590	4.0	210411.320	5.0
77.8368	26.02	-8.67	30088.840	3.0	158562.700	4.0	78.3948	26.02	-2.06	30857.800	3.0	158417.310	2.0
77.8376	17.02	-3.82	18053.000	1.5	146525.600	1.5	78.3957	26.02	-1.70	82846.590	4.0	210404.610	4.0
77.8402	9.03	-3.25	460640.600	2.0	589109.000	1.0	78.3988	26.02	-2.43	82846.590	4.0	210399.570	3.0
77.8429	23.03	-2.09	18391.200	4.0	146855.100	3.0	78.3999	26.02	-5.01	21462.200	4.0	149013.360	4.0
77.8531	19.02	-4.41	2162.000	.5	130609.000	.5	78.4061	26.02	-1.93	30716.200	2.0	158257.370	1.0
77.8602	29.02	-1.31	0.000	2.5	128435.300	1.5	78.4104	15.02	-1.30	56919.300	.5	184453.400	.5
77.8613	26.02	-3.74	73849.100	1.0	202282.650	2.0	78.4120	26.02	-1.34	30725.800	1.0	158257.370	1.0
77.8622	9.03	-1.93	551366.000	3.0	679798.000	2.0	78.4174	16.01	-3.92	24571.600	1.5	152094.340	2.5
77.8634	24.03	-4.62	36490.000	3.5	164920.000	3.5	78.4231	15.02	-1.10	57125.800	1.5	184639.300	1.5
77.8656	24.02	-6.22	355.800	3.0	128782.200	3.0	78.4398	26.02	-2.77	19404.800	2.0	146891.040	3.0
77.8742	28.02	-2.94	84604.800	1.0	213017.000	2.0	78.4427	15.01	-4.95	469.000	2.0	127950.600	2.0
77.8774	17.02	-5.30	18118.600	2.5	146525.600	1.5	78.4452	26.02	-2.68	40999.870	2.0	168477.360	1.0
77.8799	28.02	-2.29	14031.600	2.0	142434.400	2.0	78.4524	15.01	-1.36	469.000	2.0	127934.900	1.0
77.8826	26.02	-4.21	73935.960	0.0	202334.390	1.0	78.4639	28.01	-1.92	10115.660	2.5	137562.740	3.5
77.8828	24.02	-7.89	355.800	3.0	128753.900	2.0	78.4640	30.02	-2.82	137866.400	2.0	265313.400	2.0
77.8829	26.02	-1.92	82001.730	2.0	210399.570	3.0	78.4654	26.02	-4.61	73849.100	1.0	201293.750	2.0
77.8851	26.02	-1.70	82001.730	2.0	210396.000	2.0	78.4688	26.02	-5.12	932.400	1.0	128371.530	0.0
77.8865	26.02	-1.75	82001.730	2.0	210393.670	1.0	78.4704	26.02	-4.32	73727.640	2.0	201164.210	2.0
77.9041	21.02	-2.29	0.000	1.5	128363.000	1.5	78.4713	15.01	-3.19	164.800	1.0	127600.000	1.0
77.9065	14.03	-2.02	193978.890	.5	322337.830	1.5	78.4717	16.01	-3.30	24524.900	.5	151959.410	1.5
77.9140	22.03	-3.32	384.300	2.5	128730.900	1.5	78.4799	26.02	-2.46	40999.870	2.0	168420.990	2.0
77.9188	9.00	-2.96	0.000	.5	128338.720	.5	78.4804	28.01	-8.91	10115.660	2.5	137535.960	3.5
77.9211	16.03	-3.89	94148.100	2.5	222483.000	1.5	78.4804	15.01	-4.10	469.000	2.0	127889.300	3.0
77.9216	14.03	-2.32	193978.890	.5	322312.930	.5	78.4845	26.02	-3.41	42896.900	3.0	170310.600	3.0
77.9293	29.01	-8.85	21928.600	3.0	150250.000	2.0	78.4861	28.01	-8.84	10115.660	2.5	137526.730	2.5
77.9373	9.00	-3.41	404.100	1.5	128712.300	1.5	78.4881	28.01	-9.82	10115.660	2.5	137523.510	3.5
77.9448	27.02	-1.28	1451.300	2.5	129747.300	2.5	78.4907	28.01	-9.78	10115.660	2.5	137519.230	2.5
77.9461	9.00	-2.26	404.100	1.5	128697.890	2.5	78.4911	29.01	-1.17	22846.970	2.0	150250.000	2.0
77.9537	26.02	-1.27	82333.920	3.0	210615.210	3.0	78.4968	28.02	-1.28	17230.700	0.0	144624.400	1.0
77.9546	28.01	-5.58	8393.900	4.5	136673.640	4.5	78.4993	30.02	-2.00	137866.400	2.0	265256.100	3.0
77.9579	24.02	-5.50	575.000	4.0	128849.400	4.0	78.5004	16.01	-4.46	24571.600	1.5	151959.410	1.5
77.9605	20.02	-1.36	212310.040	4.0	340580.150	3.0	78.5017	16.01	-1.93	24524.900	.5	151910.670	1.5
77.9673	27.02	-1.76	0.000	4.5	128258.900	5.5	78.5030	28.02	-1.73	14031.600	2.0	141415.300	1.0
77.9693	27.02	-6.66	1451.300	2.5	129706.900	3.5	78.5118	20.02	-1.74	213379.400	3.0	340748.720	2.0
77.9785	26.03	-4.83	73842.200	2.5	202082.600	1.5	78.5206	26.02	-2.47	20051.100	6.0	147406.140	5.0
77.9832	28.01	-5.41	9330.040	3									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
78.6141	28.02	-1.36	16661.600	2.0	143865.200	3.0	79.2537	9.00	-2.03	404.100	1.5	126581.180	.5
78.6144	15.01	-.61	164.800	1.0	127368.000	2.0	79.2558	26.02	-1.15	21462.200	4.0	147635.950	3.0
78.6159	20.02	-2.35	213379.400	3.0	340580.150	3.0	79.2664	27.02	-1.15	841.200	3.5	126998.100	4.5
78.6257	15.02	-.57	57454.500	2.5	184639.300	1.5	79.2938	8.00	-.44	226.977	0.0	126340.225	1.0
78.6309	27.02	-5.40	841.200	3.5	128017.700	3.5	79.2940	17.04	-3.49	146644.000	.5	272757.000	1.5
78.6448	26.02	-3.31	20481.900	4.0	147635.950	3.0	79.2967	8.00	-.34	158.265	1.0	126266.896	2.0
78.6479	16.04	.24	0.000	0.0	127149.000	1.0	79.3015	9.03	-2.69	551366.000	3.0	677467.000	2.0
78.6541	30.02	-2.71	137866.400	2.0	265005.300	2.0	79.3060	29.02	-1.52	0.000	2.5	126093.800	3.5
78.6590	15.01	-1.38	469.000	2.0	127600.000	1.0	79.3228	9.00	-3.91	0.000	.5	126067.230	.5
78.6632	26.02	-1.70	30857.800	3.0	157982.000	3.0	79.3330	27.02	-2.27	841.200	3.5	126892.100	3.5
78.6749	26.02	-3.12	20300.800	5.0	147406.140	5.0	79.3449	17.01	.23	0.000	2.0	126032.000	2.0
78.6809	26.02	-2.56	30886.400	4.0	157982.000	3.0	79.3464	27.02	-2.59	841.200	3.5	126870.900	2.5
78.6946	27.02	-3.78	1451.300	2.5	128524.900	2.5	79.3607	28.01	-9.76	10115.660	2.5	136122.610	2.5
78.6964	27.02	-.90	1866.800	1.5	128937.400	.5	79.3608	27.02	-1.28	1451.300	2.5	127458.100	1.5
78.7012	28.01	-6.96	9330.040	3.5	136392.850	3.5	79.3648	9.03	-2.67	460640.600	2.0	586641.000	2.0
78.7042	26.02	-3.41	21857.200	2.0	148915.300	1.0	79.3733	28.01	-3.81	8393.900	4.5	134380.820	3.5
78.7087	27.02	-2.26	0.000	4.5	127050.800	4.5	79.3906	16.01	-4.77	24571.600	1.5	150531.120	1.5
78.7211	17.01	-4.56	696.100	1.0	127726.900	1.0	79.3953	17.04	-3.49	146644.000	.5	272596.000	.5
78.7253	28.02	-.87	78303.100	2.0	205327.000	1.0	79.4004	26.02	-1.32	21462.200	4.0	147406.140	5.0
78.7308	20.02	-2.13	214334.060	2.0	341349.190	1.0	79.4054	26.02	-2.70	21699.900	3.0	147635.950	3.0
78.7413	27.02	-.98	0.000	4.5	126998.100	4.5	79.4080	28.01	-1.88	9320.040	3.5	135261.990	4.5
78.7506	28.02	-.71	78482.900	1.0	205466.000	0.0	79.4157	28.02	-3.57	79143.300	2.0	205063.000	2.0
78.7576	27.02	-.69	1451.300	2.5	128423.100	1.5	79.4188	26.02	-1.30	21699.900	3.0	147614.650	2.0
78.7599	26.02	-2.30	30716.200	2.0	157684.300	2.0	79.4212	27.02	-1.61	17766.200	3.5	143677.100	3.5
78.7650	30.02	-3.51	137866.400	2.0	264826.300	1.0	79.4378	28.01	-8.43	10663.890	1.5	136548.500	2.5
78.7659	26.02	-1.30	30725.800	1.0	157684.300	2.0	79.4417	9.00	-1.29	404.100	1.5	126282.580	1.5
78.7748	28.01	-1.28	8393.900	4.5	135338.010	5.5	79.4425	9.00	-3.66	0.000	.5	125877.280	1.5
78.7786	27.02	-2.53	1866.800	1.5	128804.900	1.5	79.4487	28.01	-8.47	10663.890	1.5	136531.260	1.5
78.7859	26.02	-1.43	20688.400	1.0	147614.650	2.0	79.4491	13.01	-2.62	0.000	0.0	125866.700	1.0
78.7872	26.02	-3.09	20481.900	4.0	147406.140	5.0	79.4493	27.02	-1.47	1451.300	2.5	127317.700	3.5
78.8028	15.01	-.59	469.000	2.0	127368.000	2.0	79.4576	28.01	-9.10	10663.890	1.5	136517.200	.5
78.8029	28.02	-.53	16661.600	2.0	143560.500	2.0	79.4670	28.01	-9.12	10115.660	2.5	135954.090	3.5
78.8071	27.02	-1.02	0.000	4.5	126892.100	3.5	79.4716	28.02	-5.00	82172.900	3.0	208004.000	2.0
78.8072	29.02	-.29	0.000	2.5	126891.900	2.5	79.4757	28.01	-1.37	1506.940	1.5	127331.600	2.5
78.8118	28.02	-1.67	14031.600	2.0	140916.200	2.0	79.4786	24.03	-2.99	36490.000	3.5	162310.000	2.5
78.8220	28.01	-2.00	8393.900	4.5	135261.990	4.5	79.4856	11.02	-4.11	41848.100	1.5	544227.000	.5
78.8221	26.02	-1.92	20688.400	1.0	147556.450	1.0	79.4856	11.02	-3.34	41848.100	1.5	544227.000	1.5
78.8253	28.01	-9.59	10663.890	1.5	137526.730	2.5	79.4963	6.01	-1.09	96493.740	.5	222285.700	.5
78.8267	26.02	-3.28	20300.800	5.0	147161.360	4.0	79.5047	26.02	-2.92	21857.200	2.0	147635.950	3.0
78.8277	16.01	-1.59	24524.900	.5	151383.830	.5	79.5084	28.02	-2.91	16661.600	2.0	142434.400	2.0
78.8310	28.02	-.68	14031.600	2.0	140885.200	1.0	79.5133	6.01	-.78	96493.740	.5	222258.800	1.5
78.8359	28.02	-3.70	86646.200	2.0	213492.000	1.0	79.5182	26.02	-2.49	21857.200	2.0	147614.650	2.0
78.8369	28.02	-.43	78482.900	1.0	205327.000	1.0	79.5263	29.02	-2.86	0.000	2.5	125744.600	1.5
78.8461	29.02	-.57	0.000	2.5	126829.400	3.5	79.5456	26.02	-2.82	24940.900	4.0	150654.900	3.0
78.8479	26.02	-2.67	30857.800	3.0	157684.300	2.0	79.5494	27.02	-1.05	841.200	3.5	126549.300	3.5
78.8567	16.01	-2.00	24571.600	1.5	151383.830	.5	79.5506	13.01	-5.15	0.000	0.0	125706.200	1.0
78.8572	11.02	-4.80	417415.500	1.5	544227.000	.5	79.5550	26.02	-1.48	21857.200	2.0	147556.450	1.0
78.8572	11.02	-4.01	417415.500	1.5	544227.000	1.5	79.5550	26.02	-2.77	21462.200	4.0	147161.360	4.0
78.8855	30.02	-4.19	137866.400	2.0	264632.400	3.0	79.5588	17.01	.42	27877.800	0.0	153571.000	1.0
78.8893	28.02	-3.72	78303.100	2.0	205063.000	2.0	79.5605	27.02	-1.95	0.000	4.5	125690.500	3.5
78.8919	27.02	-.74	20194.900	1.5	146950.700	2.5	79.5630	16.01	-5.05	24571.600	1.5	150258.200	.5
78.8978	28.01	-3.06	9330.040	3.5	136076.260	4.5	79.5734	11.02	-3.78	418556.900	.5	544227.000	.5
78.8991	9.03	-1.77	460385.800	1.0	587130.000	2.0	79.5734	11.02	-4.23	418556.900	.5	544227.000	1.5
78.9013	16.02	-1.89	11320.800	2.0	138061.400	1.0	79.5749	28.02	-4.19	86646.200	2.0	212314.000	3.0
78.9017	17.01	-7.53	27877.800	0.0	154617.800	1.0	79.5772	12.03	-3.18	597589.900	.5	723254.000	1.5
78.9024	28.01	-8.27	0.000	2.5	126738.820	1.5	79.5778	9.00	-4.30	404.100	1.5	126067.230	.5
78.9076	17.01	-.69	996.400	0.0	127726.900	1.0	79.5851	26.02	-3.40	738.900	2.0	126390.570	1.0
78.9100	12.03	-3.40	596527.300	2.5	723254.000	1.5	79.5938	26.02	-2.88	0.000	4.0	125637.980	3.0
78.9269	27.02	-.14	16977.600	4.5	143677.100	3.5	79.5964	26.02	-3.53	19404.800	2.0	145038.610	3.0
78.9394	26.02	-2.46	20481.900	4.0	147161.360	4.0	79.5986	28.01	-3.45	10115.660	2.5	135746.060	3.0
78.9456	27.02	-1.03	1866.800	1.5	128536.300	.5	79.6233	27.02	-2.73	1866.800	1.5	127458.100	1.5
78.9527	27.02	-2.69	1866.800	1.5	128524.900	2.5	79.6271	27.02	-2.45	15201.900	2.5	140787.300	2.5
78.9678	27.02	-1.38	1451.300	2.5	128085.200	2.5	79.6292	24.03	-1.22	36490.000	3.5	162072.000	3.5
78.9842	29.02	-.97	2071.800	1.5	128679.400	2.5	79.6364	28.02	-3.62	79143.300	2.0	204714.000	3.0
78.9997	28.02	-1.24	16977.800	1.0	143560.500	2.0	79.6368	28.02	-4.64	82172.900	3.0	207743.000	3.0
79.0007	9.00	-1.73	0.000	.5	126581.180	.5	79.6377	29.01	-6.39	0.000	0.0	125568.700	1.0
79.0083	9.03	-.27	551098.000	2.0	677667.000	3.0	79.6582	27.02	-3.40	1451.300	2.5	126987.600	1.5
79.0099	27.02	-2.67	1451.300	2.5	128017.700	3.5	79.6628	8.01	-1.13	40466.900	1.5	165996.000	1.5
79.0162	27.02	-1.36	1866.800	1.5	128423.100	1.5	79.6638	8.01	-.44	40468.400	.5	165996.000	1.5
79.0206	27.02	-.32	0.000	4.5	126549.300	3.5	79.6660	26.02	-9.23	42896.900	3.0	168420.990	2.0
79.0208	9.03	-.43	550918.000	1.0	677467.000	2.0	79.6681	8.01	-.19	40466.900	1.5	165987.700	2.5
79.0264	9.03	-.12	551366.000	3.0	677906.000	4.0	79.6697	16.02	.23	11320.800	2.0	136839.000	1.0
79.0432	28.02	-1.43	14031.600	2.0	140544.700	3.0	79.6718	28.01	-9.18	10115.660	2.5	135630.630	2.5
79.0506	27.02	-4.02	0.000	4.5	126501.300	5.5	79.6726	28.01	-9.01	10115.660	2.5	135629.400	3.5
79.0635	26.02	-4.83	92523.910	5.0	219004.530	4.0	79.6733	26.02	-3.94	25142.400	3.0	150654.900	3.0
79.0661	27.02	-2.34	841.200	3.5	127317.700	3.5	79.6762	28.01	-9.89	10115.660	2.5	135623.590	1.5
79.0933	28.01	-9.67	10115.660	2.5	136548.550	2.5	79.6786	28.01	-9.57	10115.660	2.5	135619.510	1.5
79.0942	28.01	-9.47	10115.660	2.5	136547.130	3.5	79.6797	28.01	-9.43	10115.660	2.5	135618.080	2.5
79.0973	28.01	-9.64	10115.660	2.5	136542.280	3.5	79.6983	9.00	-2.91	404.100	1.5	125877.280	1.5
79.0985	16.01	-4.63	24571.600	1.5	150996.270	2.5	79						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
79.7901	28.01	-8.45	10115.660	2.5	135444.470	3.5	80.2784	20.02	-4.21	226333.560	3.0	350900.040	2.0
79.7920	26.02	-3.91	76956.790	3.0	202282.650	2.0	80.2842	29.02	-1.41	0.000	2.5	124557.500	3.5
79.7985	26.02	-4.84	88694.670	5.0	214010.320	5.0	80.2847	26.02	-3.21	20481.900	4.0	145038.610	3.0
79.8109	27.02	-1.92	0.000	4.5	125296.200	5.5	80.2859	18.00	-2.35	0.000	0.0	124554.939	1.0
79.8130	25.03	-2.06	53286.700	3.0	178579.500	4.0	80.2927	13.03	-1.90	681686.700	0.0	806231.000	1.0
79.8144	28.01	-8.35	13550.390	3.5	138841.000	3.5	80.2939	26.02	-3.77	20300.800	5.0	144843.240	5.0
79.8172	18.00	-1.41	0.000	0.0	125286.280	1.0	80.2945	27.02	-1.10	15201.900	2.5	139743.400	2.5
79.8180	28.01	-8.80	10115.660	2.5	135400.670	3.5	80.2946	27.02	-2.33	1451.300	2.5	125992.700	2.5
79.8296	28.01	-3.02	10115.660	2.5	135382.530	1.5	80.2982	26.02	-2.24	20051.100	6.0	144586.830	5.0
79.8385	26.02	-6.52	40999.870	2.0	166252.740	3.0	80.2989	26.02	-4.23	88923.070	6.0	213457.820	7.0
79.8416	24.03	-2.71	37062.000	2.5	162310.000	2.5	80.3033	27.02	-1.23	841.200	3.5	125369.100	2.5
79.8452	30.02	-2.88	140071.000	1.0	265313.400	2.0	80.3064	28.01	-2.22	9330.040	3.5	133853.040	4.5
79.8466	28.02	-4.95	81686.900	6.0	206927.000	5.0	80.3079	28.01	-2.26	9330.040	3.5	133850.830	3.5
79.8488	26.02	-3.37	436.200	3.0	125672.830	2.0	80.3116	27.02	-2.06	1866.800	1.5	126381.800	1.5
79.8508	9.00	-5.50	404.100	1.5	125637.690	2.5	80.3239	14.01	-2.15	0.000	5	124496.000	1.5
79.8518	28.01	-2.23	8393.900	4.5	133625.960	5.5	80.3299	26.02	-2.42	20481.900	4.0	144968.500	4.0
79.8518	26.02	-4.46	77102.430	2.0	202334.390	1.0	80.3351	15.01	-2.98	469.000	2.0	124947.600	2.0
79.8519	28.01	-7.68	1506.940	1.5	126738.820	1.5	80.3395	20.02	-0.93	226333.560	3.0	350805.320	4.0
79.8550	27.02	-2.43	0.000	4.5	125227.000	3.5	80.3421	26.02	-3.35	436.200	3.0	124903.920	2.0
79.8582	28.02	-2.69	14031.600	2.0	139253.600	2.0	80.3497	24.03	-1.59	36490.000	3.5	160946.000	3.5
79.8711	26.02	-2.58	436.200	3.0	125637.980	3.0	80.3498	28.02	-1.76	14031.600	2.0	138487.400	3.0
79.8779	26.02	-2.83	21699.900	3.0	146891.040	3.0	80.3506	26.02	-2.92	24558.800	5.0	149013.360	4.0
79.8814	28.01	-8.47	10663.890	1.5	135849.410	2.5	80.3562	20.02	-2.33	226333.560	3.0	350779.470	3.0
79.8843	27.02	-1.67	15201.900	2.5	140382.900	3.5	80.3574	24.03	-1.51	37062.000	2.5	161506.000	2.5
79.8941	26.02	-3.09	19404.800	2.0	144570.530	3.0	80.3616	28.02	-1.30	16977.800	1.0	141415.300	1.0
79.9032	27.02	-1.46	841.200	3.5	125992.700	2.5	80.3645	15.01	-2.82	0.000	0.0	124433.100	1.0
79.9075	26.02	-6.84	40999.870	2.0	166144.630	2.0	80.3695	27.02	-2.78	15201.900	2.5	139627.200	1.5
79.9143	28.01	-3.19	8393.900	4.5	133528.020	3.5	80.3743	26.02	-3.42	436.200	3.0	124854.040	3.0
79.9228	27.02	-1.34	1866.800	1.5	126987.600	1.5	80.3809	20.02	-2.83	226333.560	3.0	350741.190	3.0
79.9373	27.02	-1.91	1451.300	2.5	126549.300	3.5	80.3932	27.02	-1.66	15811.400	5	140200.100	1.5
79.9380	26.02	-4.31	19404.800	2.0	144501.740	2.0	80.3950	27.02	-0.98	841.200	3.5	125227.000	3.5
79.9474	28.01	-8.64	10663.890	1.5	135746.130	1.5	80.3967	26.02	-5.71	25142.400	3.0	149525.630	2.0
79.9528	20.02	-2.67	225826.220	2.0	350900.040	2.0	80.4054	27.02	-2.14	16977.800	4.5	141347.300	4.5
79.9660	6.01	.25	74930.100	2.5	199983.240	3.5	80.4056	30.02	-0.94	137866.400	2.0	262235.800	3.0
79.9668	28.01	-5.16	8393.900	4.5	133445.750	4.5	80.4058	25.03	-1.26	53260.700	2.0	177629.800	2.0
79.9671	26.02	-4.55	88923.070	6.0	213974.420	6.0	80.4108	26.02	-3.23	20481.900	4.0	144843.240	5.0
79.9675	28.01	-3.29	9330.040	3.5	134380.820	3.5	80.4179	30.02	-3.85	140654.800	3.0	265005.300	2.0
79.9783	26.02	-1.28	21857.200	2.0	146891.040	3.0	80.4226	25.03	-2.21	53286.700	3.0	177629.800	2.0
79.9847	27.02	-1.64	15201.900	2.5	140225.800	3.5	80.4266	26.02	-4.66	76956.790	3.0	201293.750	2.0
79.9898	24.03	-2.85	36490.000	3.5	161506.000	2.5	80.4332	8.00	-2.59	0.000	2.0	124326.779	3.0
79.9921	27.02	-0.95	0.000	4.5	125012.400	4.5	80.4381	8.00	-1.81	0.000	2.0	124319.175	2.0
79.9928	6.01	-1.05	74930.100	2.5	199941.410	2.5	80.4407	27.02	-1.22	15428.200	1.5	139743.400	2.5
79.9936	24.03	-2.77	37062.000	2.5	162072.000	3.5	80.4438	26.02	-3.44	42896.900	3.0	167207.300	4.0
79.9938	27.02	-2.40	15201.900	2.5	140211.600	2.5	80.4487	27.02	-1.43	15428.200	1.5	139731.000	5
79.9944	6.01	.10	74932.620	1.5	199941.410	2.5	80.4499	28.01	-3.43	10663.890	1.5	134964.780	1.5
79.9953	26.02	-2.22	436.200	3.0	125443.580	4.0	80.4596	26.02	-2.38	20300.800	5.0	144586.830	5.0
79.9974	27.02	-1.61	1866.800	1.5	126870.900	2.5	80.4654	14.01	-2.77	0.000	5	124277.000	5
80.0012	27.02	-2.61	15201.900	2.5	140200.100	1.5	80.4710	15.01	-2.87	164.800	1.0	124433.100	1.0
80.0066	14.02	-1.27	82884.410	1.0	207874.090	0.0	80.4731	28.01	-2.69	10115.660	2.5	134380.820	3.5
80.0070	28.01	-8.96	10663.890	1.5	135652.930	1.5	80.4799	28.02	-3.39	16661.600	2.0	140916.200	2.0
80.0191	28.02	-4.62	83033.800	2.0	208004.000	2.0	80.4810	8.00	-1.84	0.000	2.0	124252.926	3.0
80.0213	28.01	-8.58	10663.890	1.5	135630.630	2.5	80.4899	27.02	-1.65	1451.300	2.5	125690.500	3.5
80.0258	28.01	-8.61	10663.890	1.5	135623.590	1.5	80.4931	26.02	-2.50	35803.700	2.0	160037.900	2.0
80.0282	28.01	-8.88	10663.890	1.5	135619.910	1.5	80.4997	8.00	-1.33	0.000	2.0	124224.118	2.0
80.0293	28.01	-8.74	10663.890	1.5	135618.080	2.5	80.5000	28.02	-1.29	16661.600	2.0	140885.200	1.0
80.0299	20.02	-3.19	225826.220	2.0	350779.470	3.0	80.5030	8.00	-1.34	0.000	2.0	124219.025	3.0
80.0338	28.02	-1.42	14031.600	2.0	138978.800	1.0	80.5049	26.02	-4.18	738.900	2.0	124954.880	1.0
80.0349	28.01	-0.24	13550.390	3.5	138495.840	4.5	80.5069	27.02	-0.84	16977.800	4.5	141190.500	5.5
80.0416	28.01	-9.28	10663.890	1.5	135599.000	5	80.5097	14.01	-1.90	287.320	1.5	124496.000	2.5
80.0421	30.02	-1.23	140071.000	1.0	265005.300	2.0	80.5097	14.01	-2.86	287.320	1.5	124496.000	1.5
80.0423	26.02	-3.71	738.900	2.0	125672.830	2.0	80.5105	26.02	-4.97	76956.790	3.0	201164.210	2.0
80.0445	27.02	-1.37	1451.300	2.5	126381.800	1.5	80.5159	27.02	-2.29	15428.200	1.5	139627.200	1.5
80.0448	26.02	-5.83	20688.400	1.0	145618.390	2.0	80.5166	28.01	-1.52	9330.040	3.5	133528.020	3.5
80.0545	20.02	-0.32	225826.220	2.0	350741.190	3.0	80.5174	25.02	-3.62	71395.270	5	195592.090	1.5
80.0581	18.03	-1.14	21090.700	1.5	146000.000	2.5	80.5229	26.02	-4.13	42896.900	3.0	167085.120	3.0
80.0646	26.02	-2.44	738.900	2.0	125637.980	3.0	80.5229	25.02	-3.65	71564.210	1.5	195752.480	2.5
80.0646	26.02	-4.26	88663.870	4.0	213563.080	5.0	80.5253	28.02	-1.39	17230.700	0.0	141415.300	1.0
80.0665	27.02	-1.91	16977.600	4.5	141873.800	5.5	80.5287	28.01	-8.62	10115.660	2.5	134294.990	2.5
80.0780	28.01	-1.46	9330.040	3.5	134208.300	2.5	80.5340	27.02	-0.44	841.200	3.5	125012.400	4.5
80.0879	25.03	-2.21	53212.300	4.0	178075.100	3.0	80.5371	30.02	-1.31	140071.000	1.0	264237.400	1.0
80.0935	26.02	-2.05	0.000	4.0	124854.040	3.0	80.5380	26.02	-2.86	738.900	2.0	124903.920	2.0
80.0966	27.02	-3.28	841.200	3.5	125690.500	3.5	80.5399	27.02	-1.66	841.200	3.5	125003.300	2.5
80.0967	28.01	-7.68	10663.890	1.5	135512.920	2.5	80.5406	8.00	-3.34	158.265	1.0	124319.175	2.0
80.0967	28.01	-6.16	10115.660	2.5	134964.780	1.5	80.5501	28.01	-9.98	10115.660	2.5	134262.070	3.5
80.1088	18.03	.07	21090.700	1.5	145921.000	1.5	80.5548	28.01	-8.98	10115.660	2.5	134254.690	1.5
80.1094	28.01	-8.91	10663.890	1.5	135493.260	1.5	80.5560	28.01	-8.69	10115.660	2.5	134252.850	3.5
80.1150	28.02	-1.69	14031.600	2.0	138852.200	3.0	80.5613	30.02	-1.70	140654.800	3.0	264783.900	4.0
80.1153	29.02	-0.89	2071.800	1.5	126891.900	2.5	80.5634	27.02	-5.46	1866.800	1.5	125992.700	2.5
80.1190	25.03	-2.09	53260.700	2.0	178075.100	3.0	80.5677	28.01	-3.83	10663.890	1.5	134783.140	2.

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
80.6852	28.02	-2.14	16977.800	1.0	140916.200	2.0	81.0724	27.02	-0.72	15428.200	1.5	138774.700	2.5
80.6861	6.01	-0.85	43053.600	2.5	166990.730	1.5	81.0775	26.02	-1.10	21699.900	3.0	145038.610	3.0
80.6862	24.03	-5.14	37062.000	2.5	160999.000	1.5	81.0816	28.02	-2.01	14031.600	2.0	137364.100	1.0
80.6868	18.00	-2.49	0.000	0.0	123935.370	1.0	81.0819	9.02	-4.75	344436.960	0.5	467769.110	0.5
80.6913	30.02	-4.10	141327.000	4.0	265256.100	3.0	81.0829	25.02	-4.54	71564.210	1.5	194894.780	1.5
80.6923	26.02	-3.25	1027.300	0.0	124954.880	1.0	81.0864	26.02	-3.13	42896.900	3.0	166222.200	4.0
80.6959	9.00	-0.83	0.000	0.5	123922.010	1.5	81.0937	26.02	-1.43	436.200	3.0	123750.390	3.0
80.6969	25.02	-2.80	71831.980	2.5	195752.480	2.5	81.0964	29.02	-2.58	2071.800	1.5	125381.800	2.5
80.6975	27.02	-1.73	15811.400	0.5	139731.000	0.5	81.0968	28.01	-3.67	10663.890	1.5	133973.330	2.5
80.6982	26.02	-3.03	21699.900	3.0	145618.390	2.0	81.0994	30.02	-4.32	141327.000	4.0	264632.400	3.0
80.6985	28.01	-4.49	8393.900	4.5	132311.980	4.5	81.1000	29.01	-2.14	0.000	0.0	123304.630	1.0
80.6987	27.02	-1.49	1451.300	2.5	125369.100	2.5	81.1051	8.00	-1.33	0.000	2.0	123296.777	2.0
80.7054	28.02	-1.28	16977.800	1.0	140885.200	1.0	81.1086	15.01	-1.78	164.800	1.0	123456.300	1.0
80.7115	25.02	-3.02	71564.210	1.5	195462.260	0.5	81.1129	25.02	-2.67	71564.210	1.5	194849.100	1.5
80.7155	27.02	-0.89	23058.800	2.5	146950.700	2.5	81.1156	25.02	-2.24	71831.980	2.5	195112.810	3.5
80.7194	27.02	-0.92	15428.200	1.5	139314.200	0.5	81.1229	26.02	-1.11	20051.100	6.0	143320.850	6.0
80.7207	24.03	-3.14	37062.000	2.5	160946.000	3.5	81.1237	26.02	-2.51	21699.900	3.0	144968.500	4.0
80.7213	28.02	-1.38	16661.600	2.0	140544.700	3.0	81.1287	26.02	-1.01	436.200	3.0	123697.180	2.0
80.7218	18.00	-2.50	0.000	0.0	123882.300	1.0	81.1318	17.01	-3.69	27877.800	0.0	151134.000	1.0
80.7238	28.01	-3.74	9330.040	3.5	13209.300	2.5	81.1352	24.03	-1.64	37062.000	2.5	160313.000	2.5
80.7292	26.02	-3.65	25142.400	3.0	149013.360	4.0	81.1371	27.02	-1.03	16977.600	4.5	140225.800	3.5
80.7378	28.01	-3.15	10115.660	2.5	139373.330	2.5	81.1497	8.00	-1.56	158.265	1.0	123387.339	0.0
80.7426	26.02	-3.16	20481.900	4.0	144332.210	4.0	81.1571	28.02	-1.11	23108.700	4.0	146326.500	5.0
80.7458	28.01	-6.59	14995.570	2.5	138841.000	3.5	81.1706	8.00	-1.25	158.265	1.0	123355.512	1.0
80.7479	12.02	-6.28	467378.500	1.0	591220.700	1.0	81.1761	28.02	-4.36	82277.000	1.0	205466.000	0.0
80.7494	28.01	-2.44	9330.040	3.5	133169.920	3.5	81.1811	26.02	-2.33	21857.200	2.0	145038.610	3.0
80.7542	26.02	-0.09	20051.100	6.0	143883.740	5.0	81.1819	15.01	-1.61	164.800	1.0	123345.000	0.0
80.7604	24.03	-2.83	36490.000	3.5	160313.000	2.5	81.1958	27.02	-0.77	15811.400	0.5	138970.500	1.5
80.7651	27.02	-3.22	15811.400	0.5	139627.200	1.5	81.2015	25.02	-3.02	71395.270	0.5	194545.780	0.5
80.7653	18.00	-0.96	0.000	0.0	123815.530	1.0	81.2089	25.02	-3.61	71831.980	2.5	194971.150	2.5
80.7667	26.02	-6.33	20688.400	1.0	144501.740	2.0	81.2094	8.00	-0.90	158.265	1.0	123296.777	2.0
80.7851	26.02	-0.25	20300.800	5.0	144085.970	4.0	81.2107	27.02	-0.75	1866.800	1.5	125003.300	2.5
80.7891	17.04	-3.75	146644.000	0.5	270423.000	1.5	81.2134	25.02	-2.75	72183.330	3.5	195315.780	2.5
80.7913	27.02	-0.61	1451.300	2.5	125227.000	3.5	81.2139	15.04	-0.53	345398.400	1.5	468530.000	2.5
80.7959	27.02	-0.82	15201.900	2.5	138970.500	1.5	81.2148	26.02	-4.60	19404.800	2.0	142535.070	2.0
80.7982	25.02	-2.24	72183.330	3.5	195948.440	3.5	81.2159	8.00	-1.07	226.977	0.0	123355.512	1.0
80.7987	18.02	-2.66	33267.000	0.0	157031.400	1.0	81.2172	15.04	-0.38	345403.300	2.5	468530.000	3.5
80.8008	26.02	-1.57	21857.200	2.0	145618.390	2.0	81.2172	15.04	-1.68	345403.300	2.5	468530.000	2.5
80.8015	25.02	-2.72	71831.980	2.5	195952.090	1.5	81.2180	25.02	-2.13	72183.330	3.5	195308.790	4.5
80.8036	27.02	-0.96	23058.800	2.5	146815.600	3.5	81.2185	26.02	-3.28	21462.200	4.0	144566.830	5.0
80.8071	25.02	-4.16	71564.210	1.5	195315.780	2.5	81.2194	28.01	-1.78	13550.390	3.5	136673.640	4.5
80.8078	26.02	-1.24	0.000	4.0	123750.390	3.0	81.2293	26.02	-2.30	21462.200	4.0	144570.530	3.0
80.8100	9.03	-1.13	556051.000	1.0	679798.000	1.0	81.2390	28.01	-1.68	10115.660	2.5	133209.300	2.5
80.8100	9.03	-0.66	556051.000	1.0	679798.000	2.0	81.2504	25.03	-2.09	53212.300	4.0	176288.600	5.0
80.8178	28.01	-5.06	10115.660	2.5	133850.830	3.5	81.2516	28.01	-2.78	10115.660	2.5	133190.190	1.5
80.8232	15.01	-1.56	164.800	1.0	123891.600	2.0	81.2533	10.04	-1.66	741730.000	1.0	864802.000	1.0
80.8287	8.02	-1.41	290956.620	1.0	414675.000	2.0	81.2533	10.04	-2.14	741730.000	1.0	864802.000	2.0
80.8477	26.02	-3.69	35803.700	2.0	159493.000	3.0	81.2593	25.02	-3.66	71831.980	2.5	194894.780	1.5
80.8551	9.03	-0.39	556316.000	2.0	679994.000	3.0	81.2650	28.01	-4.34	10115.660	2.5	133169.920	3.5
80.8585	29.02	-1.87	2071.800	1.5	125744.600	1.5	81.2739	30.02	-1.32	140071.000	1.0	263111.700	0.0
80.8618	27.02	-0.82	16977.600	4.5	140645.400	3.5	81.2807	28.01	-4.28	8393.900	4.5	131424.320	5.0
80.8705	26.02	-3.15	17230.700	0.0	140885.200	1.0	81.2811	9.03	-2.11	469644.200	2.0	592674.000	1.0
80.8834	26.02	-0.28	20481.900	4.0	144116.640	3.0	81.2869	27.02	-0.63	17766.200	3.5	140787.300	2.5
80.8858	28.01	-9.37	10663.890	1.5	134294.990	2.5	81.2876	26.02	-2.90	20300.800	5.0	143320.850	6.0
80.8931	28.01	-1.48	10663.890	1.5	134283.760	0.5	81.2895	25.02	-3.08	71831.980	2.5	194849.100	1.5
80.9024	12.02	-2.27	467378.500	1.0	590984.200	0.0	81.2932	26.02	-1.59	738.900	2.0	123750.390	3.0
80.9035	26.02	-2.06	20481.900	4.0	144085.970	4.0	81.3037	15.04	-1.23	304161.300	0.5	427157.000	0.5
80.9054	26.02	-3.03	42896.900	3.0	166498.000	3.0	81.3092	15.01	-1.54	469.000	2.0	123456.300	1.0
80.9122	28.01	-9.07	10663.890	1.5	134254.690	1.5	81.3128	28.01	-3.30	9330.040	3.5	132311.980	4.5
80.9173	26.02	-1.93	20300.800	5.0	143883.740	5.0	81.3130	25.02	-3.28	71564.210	1.5	194545.780	0.5
80.9185	27.02	-0.72	17766.200	3.5	141347.300	4.5	81.3284	26.02	-2.42	738.900	2.0	123697.180	2.0
80.9216	26.02	-2.56	21462.200	4.0	145038.610	3.0	81.3377	26.02	-0.24	0.000	4.0	122944.150	4.0
80.9240	27.02	-0.42	15201.900	2.5	138774.700	2.5	81.3437	17.01	-0.90	27877.800	0.0	150813.000	1.0
80.9263	25.02	-2.58	72183.330	3.5	195752.480	2.5	81.3450	28.02	-1.85	14031.600	2.0	136964.800	3.0
80.9376	27.02	-1.40	1451.300	2.5	125003.300	2.5	81.3475	25.02	-3.69	72183.330	3.5	195112.810	3.5
80.9426	28.01	-3.05	10663.890	1.5	134208.300	2.5	81.3496	26.02	-4.81	35803.700	2.0	158729.890	3.0
80.9439	27.02	-1.60	15428.200	1.5	138970.500	1.5	81.3616	26.02	-4.04	19404.800	2.0	142312.900	3.0
80.9488	28.01	-5.08	8393.900	4.5	131928.770	4.5	81.3735	28.02	-4.39	82172.900	3.0	205063.000	2.0
80.9556	26.02	-9.24	42896.900	3.0	166421.330	4.0	81.3795	15.01	-1.90	8882.600	2.0	131763.700	1.0
80.9599	9.00	-1.57	404.100	1.5	123922.010	1.5	81.3807	27.02	-1.53	17766.200	3.5	140645.400	3.5
80.9605	9.00	-0.58	404.100	1.5	123921.050	2.5	81.3864	26.02	-1.40	21699.900	3.0	144570.530	3.0
80.9620	27.02	-1.43	16977.600	4.5	140492.400	4.5	81.3868	24.03	-4.67	36490.000	3.5	159360.000	3.5
80.9641	20.02	-1.28	227388.560	2.0	350900.040	2.0	81.3868	26.02	-1.85	21462.200	4.0	144332.210	4.0
80.9675	26.02	-0.86	21462.200	4.0	144968.500	4.0	81.3885	29.01	-1.41	0.000	0.0	122867.530	1.0
80.9676	6.01	-0.43	74930.100	2.5	198436.310	2.5	81.3889	28.01	-9.71	10115.660	2.5	132982.510	1.5
80.9691	16.03	-0.63	0.000	0.5	123503.900	0.5	81.3952	26.02	-1.35	20051.100	6.0	142908.480	5.0
80.9692	6.01	-1.57	74932.620	1.5	198436.310	2.5	81.4018	26.02	-2.38	24558.800	5.0	147406.140	5.0
80.9698	27.02	-1.35	15811.400	0.5	139314.200	0.5	81.4035	30.02	-1.36	141392.500	0.0	264237.400	1.0
80.9702	27.02	-2.01	1866.800	1.5	125369.100	2.5	81.4051	28					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
81.5446	26.02	-3.32	21699.900	3.0	144332.210	4.0
81.5503	26.02	-2.20	21462.200	4.0	144085.970	4.0
81.5524	26.02	-2.83	932.400	1.0	123552.950	1.0
81.5550	27.02	-3.31	17766.200	3.5	140382.900	3.5
81.5570	26.02	-3.81	35803.700	2.0	158417.310	2.0
81.5591	27.02	-3.47	15201.900	2.5	137812.400	3.5
81.5610	26.02	-0.95	20300.800	5.0	142908.480	5.0
81.5611	9.03	-4.08	25234.400	2.0	147841.800	3.0
81.5644	26.02	-2.67	24558.800	5.0	147161.360	4.0
81.5653	25.03	-2.71	53212.300	4.0	175813.400	4.0
81.5669	28.01	-1.67	9330.040	3.5	131928.770	4.5
81.5689	9.03	-1.15	469644.200	2.0	592240.000	3.0
81.5713	27.02	-1.78	17766.200	3.5	140358.400	4.5
81.5714	28.02	-2.00	16661.600	2.0	139253.600	2.0
81.5854	26.02	-4.24	83161.480	4.0	205732.370	3.0
81.5879	28.01	-1.65	14995.570	2.5	137562.740	3.5
81.5962	26.02	-1.77	20300.800	5.0	142855.590	4.0
81.5969	16.03	-0.44	950.200	1.5	123503.900	5.5
81.6024	28.01	-2.13	10663.890	1.5	133209.300	2.5
81.6057	28.01	-8.62	14995.570	2.5	137535.960	3.5
81.6080	9.03	-2.17	588223.000	3.0	710760.000	3.0
81.6086	8.02	-4.10	300440.850	2.0	422977.000	3.0
81.6101	26.02	-3.95	83138.230	5.0	205672.010	4.0
81.6119	28.01	-8.55	14995.570	2.5	137526.730	2.5
81.6140	28.01	-9.52	14995.570	2.5	137523.510	3.5
81.6149	25.03	-2.29	53286.700	3.0	175813.400	4.0
81.6151	28.01	-1.72	10663.890	1.5	133190.190	1.5
81.6154	28.01	-1.20	13550.390	3.5	136076.260	4.5
81.6156	26.02	-2.31	1027.900	0.0	123552.950	1.0
81.6169	28.01	-9.49	14995.570	2.5	137519.230	2.5
81.6170	26.02	-1.13	932.400	1.0	123455.920	0.0
81.6180	30.02	-2.14	142483.300	2.0	265005.300	2.0
81.6231	18.00	-0.98	0.000	0.0	122514.290	1.0
81.6274	26.02	-0.93	436.200	3.0	122944.150	4.0
81.6294	28.01	-4.40	9330.040	3.5	131834.940	2.5
81.6303	29.02	-3.06	0.000	2.5	122503.600	3.5
81.6329	26.02	-4.44	83237.860	3.0	205737.510	2.0
81.6363	26.02	-4.73	83237.860	3.0	205732.370	3.0
81.6370	26.02	-3.59	25142.400	3.0	147635.950	3.0
81.6419	20.02	-2.98	228413.950	3.0	350900.040	2.0
81.6463	18.00	-2.23	0.000	0.0	122479.450	1.0
81.6511	26.02	-3.14	25142.400	3.0	147614.650	2.0
81.6553	10.04	-1.65	742336.000	3.0	864802.000	3.0
81.6553	10.04	-1.35	742336.000	3.0	864802.000	2.0
81.6558	26.02	-2.44	24940.900	4.0	147406.140	5.0
81.6576	26.02	-2.01	436.200	3.0	122898.840	2.0
81.6596	27.02	-0.57	17766.200	3.5	140225.800	3.5
81.6635	26.02	-3.40	35803.700	2.0	158257.370	1.0
81.6665	30.02	-1.28	140071.000	1.0	262520.200	2.0
81.6691	27.02	-1.85	17766.200	3.5	140211.600	2.5
81.6740	7.01	-2.76	32688.800	0.0	155126.730	1.0
81.6816	26.02	-2.75	20481.900	4.0	142908.480	5.0
81.6850	26.02	-3.12	21462.200	4.0	143883.740	5.0
81.6882	26.02	-2.61	21699.900	3.0	144116.640	3.0
81.6920	24.03	-7.66	36490.000	3.5	158901.000	2.5
81.7038	26.02	-0.78	436.200	3.0	122829.550	3.0
81.7051	20.02	-0.05	228413.950	3.0	350805.320	4.0
81.7086	26.02	-2.52	21699.900	3.0	144085.970	4.0
81.7136	26.02	-4.87	83358.880	2.0	205737.510	2.0
81.7150	25.02	-5.46	26857.800	2.5	149234.400	2.5
81.7154	10.03	-4.76	62423.000	1.5	184799.000	2.5
81.7164	25.02	-4.44	26859.900	3.5	149234.400	2.5
81.7169	26.02	-1.08	20481.900	4.0	142855.590	4.0
81.7224	20.02	-1.43	228413.950	3.0	350779.470	3.0
81.7350	26.02	-1.34	0.000	4.0	122346.610	3.0
81.7374	30.02	-1.98	142483.300	2.0	264826.300	1.0
81.7410	28.01	-9.36	10663.890	1.5	133001.470	5.5
81.7426	26.02	-4.74	83358.880	2.0	205694.090	1.0
81.7479	20.02	-1.32	228413.950	3.0	350741.190	3.0
81.7537	28.01	-9.75	10663.890	1.5	132982.510	1.5
81.7547	28.02	-2.33	16661.600	2.0	138978.800	1.0
81.7675	24.03	-6.97	37062.000	2.5	159360.000	3.5
81.7707	28.02	-4.16	83033.800	2.0	205327.000	1.0
81.7782	9.03	-1.10	588478.000	4.0	710760.000	3.0
81.7823	28.02	-1.33	16977.600	1.0	139253.600	2.0
81.7879	28.01	-1.38	8393.900	4.5	130661.320	5.5
81.7902	28.01	-8.58	10663.890	1.5	132927.970	1.5
81.7933	26.02	-2.37	21857.200	2.0	144116.640	3.0
81.8008	28.01	-9.63	10663.890	1.5	132912.150	2.5
81.8122	28.02	-4.01	82172.900	3.0	204404.000	2.0
81.8128	14.03	-4.34	71748.640	1.5	193978.890	5.5
81.8172	25.03	-4.31	53212.300	4.0	175436.000	3.0
81.8194	26.02	-2.48	24940.900	4.0	147161.360	4.0
81.8318	20.02	-4.42	225826.220	2.0	348028.130	3.0
81.8360	28.01	-2.63	13550.390	3.5	135746.060	3.5
81.8383	26.02	-1.26	436.200	3.0	122628.340	2.0
81.8394	28.02	-2.69	16661.600	2.0	138852.200	3.0
81.8448	26.02	-2.08	738.900	2.0	122921.370	1.0
81.8476	26.02	-2.83	35803.700	2.0	157982.000	3.0
81.8496	25.03	-2.42	53260.700	2.0	175436.000	3.0
81.8573	14.01	-1.92	0.000	4.5	122163.740	1.5
81.8599	27.02	-1.35	16977.600	4.5	139137.500	5.5
81.8599	26.02	-1.24	738.900	2.0	122898.840	2.0
81.8670	25.03	-2.82	53286.700	3.0	175436.000	3.0
81.8672	30.02	-0.56	142483.300	2.0	264632.400	3.0
81.8679	24.03	-5.45	36490.000	3.5	158638.000	4.5
81.8776	17.02	-3.57	43812.800	5.5	151946.400	5.5
81.8937	28.01	-5.13	10115.660	2.5	132225.150	1.5
81.8942	8.02	-3.47	20274.000	2.0	142382.800	1.0
81.8949	8.02	-5.08	20274.000	2.0	142381.700	2.0
81.8973	26.02	-1.30	738.900	2.0	122843.030	1.0
81.9064	26.02	-1.14	738.900	2.0	122829.550	3.0
81.9090	28.01	-1.55	8393.900	4.5	130480.550	3.5
81.9155	28.01	-1.59	8393.900	4.5	130470.900	4.5
81.9181	13.03	-1.32	680862.900	1.0	802936.000	1.0
81.9222	28.02	-1.72	14031.600	2.0	136098.700	1.0
81.9222	17.02	-4.03	29812.800	5.5	151879.400	1.5
81.9232	28.01	-8.37	10663.890	1.5	132729.480	2.5
81.9238	26.02	-3.58	19404.800	2.0	141469.450	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
81.9258	26.02	-1.62	19404.800	2.0	141466.530	3.0
81.9290	26.02	-4.15	83138.230	5.0	205195.150	5.0
81.9320	27.02	-2.08	17766.200	3.5	139818.700	3.5
81.9398	17.02	-3.82	29905.600	1.5	151946.400	5.5
81.9446	26.02	-4.89	83161.480	4.0	205195.150	5.0
81.9448	14.01	-1.66	42932.680	1.5	164966.000	2.5
81.9545	26.02	-2.61	25142.400	3.0	147161.360	4.0
81.9665	28.02	-1.94	16977.800	1.0	138978.800	1.0
81.9692	10.04	-1.06	742805.000	4.0	864802.000	3.0
81.9711	26.02	-2.47	19404.800	2.0	141399.040	2.0
81.9746	26.02	-1.72	932.400	1.0	122921.370	1.0
81.9825	27.02	-2.55	17766.200	3.5	139743.400	2.5
81.9845	17.02	-3.40	29905.600	1.5	151879.900	1.5
81.9898	26.02	-1.33	932.400	1.0	122898.840	2.0
82.0007	26.02	-2.85	24940.900	4.0	146891.040	3.0
82.0011	26.02	-2.11	0.000	4.0	121949.620	5.0
82.0053	27.02	-1.25	16977.600	4.5	138921.000	4.5
82.0055	17.02	-5.90	29905.600	1.5	151848.600	2.5
82.0067	26.02	-4.87	0.000	4.0	121941.290	4.0
82.0123	18.00	-2.49	0.000	0.0	121932.908	1.0
82.0129	20.02	-0.92	225826.220	2.0	347758.220	2.0
82.0136	26.02	-4.50	83161.480	4.0	205092.530	4.0
82.0212	26.02	-4.25	0.000	4.0	121919.740	3.0
82.0273	26.02	-1.72	932.400	1.0	122843.030	1.0
82.0274	26.02	-1.03	436.200	3.0	122346.610	3.0
82.0384	26.02	-1.57	1027.300	0.0	122921.370	1.0
82.0416	26.02	-1.24	738.900	2.0	122628.340	2.0
82.0475	26.02	-3.15	35803.700	2.0	157684.300	2.0
82.0503	14.01	-1.67	287.320	1.5	122163.800	2.5
82.0503	14.01	-2.62	287.320	1.5	122163.740	1.5
82.0577	30.02	-1.37	140071.000	1.0	261936.400	1.0
82.0577	30.02	-1.65	140654.800	3.0	262520.200	2.0
82.0589	29.02	-4.41	0.000	2.5	121863.700	1.5
82.0597	28.01	-4.74	0.000	2.5	121862.570	3.5
82.0627	14.01	-1.30	43107.970	2.5	164966.000	2.5
82.0650	26.02	-4.51	83237.860	3.0	205092.530	4.0
82.0677	30.02	-2.34	140071.000	1.0	261921.600	2.0
82.0704	26.02	-3.83	20688.400	1.0	142535.070	2.0
82.0741	30.02	-3.67	140654.800	3.0	262495.900	4.0
82.0742	26.02	-4.55	83161.480	4.0	205002.470	3.0
82.0755	24.03	-4.23	37062.000	2.5	158901.000	2.5
82.0809	26.02	-2.01	20481.900	4.0	142312.900	3.0
82.0844	28.02	-1.15	16661.600	2.0	138487.400	3.0
82.0864	23.04	-0.56	206350.600	.5	328173.500	.5
82.0908	9.02	-3.49	344436.960	.5	666253.240	1.5
82.0912	26.02	-1.25	1027.300	0.0	122843.030	1.0
82.0919	14.01	-2.57	0.000	.5	121814.640	.5
82.1016	28.01	-2.10	0.000	2.5	121800.340	1.5
82.1077	30.02	-0.87	140654.800	3.0	262446.100	3.0
82.1257	26.02	-4.86	83237.860	3.0	205002.470	3.0
82.1328	30.02	-3.42	142483.300	2.0	264237.400	1.0
82.1364	26.02	-2.43	25142.400	3.0	146891.040	3.0
82.1367	12.02	-2.02	467378.500	1.0	589126.800	1.0
82.1368	28.02	-1.69	17230.700	0.0	138978.800	1.0
82.1381	26.02	-1.89	20300.600	5.0	142047.000	4.0
82.1449	25.02	-4.93	26824.400	5.5	148560.500	4.5
82.1449	14.01	-0.81	43107.970	2.5	164844.000	3.5
82.1563	28.01	-6.03	10115.660	2.5	131834.940	2.5
82.1569	20.02	.01	226333.560	3.0	348051.860	4.0
82.1614	28.01	-1.71	13550.390	3.5	135261.990	4.5
82.1621	25.02	-3.77	26857.800	2.5	148568.400	2.5
82.1629	25.02	-3.97	26851.100	4.5	148560.500	4.5
82.1635	25.02	-3.82	26859.900	3.5	148568.400	2.5
82.1656	26.02	-4.77	83237.860	3.0	204943.260	2.0
82.1659	9.03	-4.01	53537.000	0.0	175242.000	1.0
82.1674	24.02	-4.24	17272.800	4.0	138975.500	3.0
82.1689	25.02	-4.16	26859.900	3.5	148560.500	4.5
82.1701	15.03	-4.82	105189.900	1.0	226888.600	1.0
82.1720	26.02	-1.07	932.400	1.0	122628.340	2.0
82.1729	20.02	-2.96	226333.560	3.0	348028.130	3.0
82.1826	28.02	-4.05	83033.800	2.0	204714.000	3.0
82.1883	27.02	-2.51	1451.300	2.5	123123.100	1.5
82.2132	17.01	-1.14	0.000	2.0	121635.000	3.0
82.2152	18.04	-3.35	0.000	0.0	121632.000	1.0
82.2316	26.02	-1.12	738.900	2.0	122346.610	3.0
82.2430	20.02	-2.01	225826.220	2.0	347417.050	3.0
82.2497	30.02	-1.94	140654.800	3.0	262235.800	3.0
82.2558	9.03	-2.76	589188.000	2.0	701760.000	3.0
82.2605	26.02	-3.16	20481.900	4.0	142047.000	4.0
82.2630	28.01	-3.17	10663.890	1.5	132225.150	1.5
82.2687	28.01	-9.38	14995.570	2.5	136548.550	2.5
82.2696	28.01	-9.17	14995.570	2.5	136547.130	3.5
82.2729	28.01	-9.35	14995.570	2.5	136542.280	3.5
82.2839	26.02	-3.40	89084.790	3.0	210615.210	3.0
82.2846	16.01	-4.03	0.000	1.5	121529.490	2.5
82.2854	16.01	-5.17	0.000	1.5	121528.200	1.5
82.2860	14.01	-2.27	287.320	1.5	121814.640	.5
82.3011	26.02	-2.18	436.200	3.0	121941.290	4.0
82.3015	25.02	-3.54	26851.100	4.5	148355.600	3.5
82.3052	17.01	-0.96	0.000	2.0	121499.000	2.0
82.3060	25.02	-4.70	26857.800	2.5	148355.600	3.5
82.3074	25.02	-3.82	26859.900	3.5	148355.600	3.5
82.3124	26.02	-1.82	20051.100	6.0	141539.550	6.0
82.3133	19.04	-0.27	40077.000	1.5	161564.000	2.5
82.3137	26.02	-4.63	92523.910	5.0	214010.320	5.0
82.3157	26.02	-3.52	436.200	3.0	121919.740	3.0
82.3179	25.02	-2.86	0.000	2.5	121480.240	3.5
82.3198	15.03	-0.11	67911.600	0.0	189389.000	1.0
82.3221	24.03	-5.29	37062.000	2.5	158536.000	1.5
82.3257	26.02	-0.83	0.000	4.0	121468.820	5.0
82.3338	28.01	-4.19	10663.890	1.5	132120.700	.5
82.3341	28.01	-1.97	0.000	2.5	121456.320	1.5
82.3371	24.03	-3.01	36490.000	3.5	157942.000	3.5
82.3409	26.02	-2.71	21462.200	4.0	142908.480	5.0
82.3409	14.02	-1.98	82884.410	1.0	204330.790	2.0
82.3445	19.04	-0.60	39758.000	.5	161199.000	1.5
82.3472	10.03	-4.87	62423.000	1.5	183860.000	2.5
82.3556	20.02	-2.84	226333.560	3.0	347758.220	2.0
82.3742	28.01	-5.20	14995.570	2.5	136392.850	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
82.3768	26.02	-2.36	21462.200	4.0	142855.590	4.0	82.8612	27.02	-1.17	16977.600	4.5	137661.400	4.5
82.3788	12.02	-1.45	467378.500	1.0	588768.900	2.0	82.8652	26.02	-2.80	21857.200	2.0	142535.070	2.0
82.3804	28.01	-0.84	8393.900	4.5	129782.070	3.5	82.8683	8.02	-4.51	294001.600	2.0	414675.000	2.0
82.3820	28.01	-2.02	0.000	2.5	121385.800	1.5	82.8789	28.01	-2.08	13550.390	3.5	134208.300	2.5
82.3842	25.02	-3.18	26824.400	5.5	148206.900	5.5	82.8789	28.01	-1.00	9330.040	3.5	129988.050	2.5
82.3938	29.02	-4.97	2071.800	1.5	123440.200	2.5	82.8915	20.02	-2.69	227388.560	2.0	348028.130	3.0
82.4023	25.02	-3.82	26851.100	4.5	148206.900	5.5	82.8946	28.01	-8.88	14995.570	2.5	135630.630	2.5
82.4035	9.03	-1.85	589406.000	3.0	710760.000	3.0	82.8955	28.01	-8.71	14995.570	2.5	135629.400	3.5
82.4089	26.02	-2.81	19404.800	2.0	140750.980	2.0	82.8995	28.01	-9.59	14995.570	2.5	135623.590	1.5
82.4232	28.01	-2.58	0.000	2.5	121325.090	2.5	82.9002	28.01	-9.75	14995.570	2.5	135622.600	3.5
82.4268	26.02	-3.59	89084.790	3.0	210404.610	4.0	82.9020	28.01	-9.28	14995.570	2.5	135619.910	1.5
82.4270	28.02	-1.53	14031.600	2.0	135351.000	2.0	82.9033	28.01	-9.14	14995.570	2.5	135618.080	2.5
82.4302	26.02	-3.69	89084.790	3.0	210399.570	3.0	82.9062	27.02	-1.05	23058.800	2.5	143677.100	3.5
82.4326	26.02	-4.11	89084.790	3.0	210396.000	2.0	82.9098	26.02	-2.62	21599.900	3.0	142312.900	3.0
82.4480	26.02	-2.05	19404.800	2.0	140693.360	3.0	82.9240	27.02	-2.16	20194.900	1.5	140787.300	2.5
82.4533	26.02	-3.79	89334.510	2.0	210615.210	3.0	82.9292	26.02	-2.75	21462.200	4.0	142047.000	4.0
82.4624	25.02	-3.52	0.000	2.5	121267.320	2.5	82.9306	30.02	-1.61	141327.000	4.0	261909.700	4.0
82.4628	30.02	-2.01	140654.800	3.0	261921.600	2.0	82.9342	29.02	-2.63	0.000	2.5	120577.500	2.5
82.4669	15.01	-0.08	8882.600	2.0	130143.300	3.0	82.9376	26.02	-1.35	436.200	3.0	121008.780	3.0
82.4699	27.02	-3.17	1866.800	1.5	123123.100	1.5	82.9425	29.02	-3.73	2071.800	1.5	122637.200	0.5
82.4709	30.02	-0.35	140654.800	3.0	261909.700	4.0	82.9444	20.02	-1.84	226333.560	3.0	346896.260	2.0
82.4742	15.03	-0.24	68139.000	1.0	189389.000	1.0	82.9487	23.04	-0.25	207617.000	1.5	328173.500	0.5
82.4742	15.03	-0.07	68139.000	1.0	189389.000	1.0	82.9573	30.02	-3.70	141392.500	0.0	261936.400	1.0
82.4747	13.03	-1.00	681686.700	0.0	802936.000	1.0	82.9707	24.02	-3.66	18451.000	2.0	138975.500	3.0
82.4799	26.02	-3.67	0.000	4.0	121241.670	4.0	82.9730	26.02	-1.97	20481.900	4.0	141002.990	4.0
82.4819	26.02	-2.45	20300.800	5.0	141539.550	6.0	82.9753	24.02	-6.41	181.900	2.0	120699.700	3.0
82.4819	16.02	-0.72	27159.100	0.0	148397.800	1.0	82.9756	28.01	-9.30	14995.570	2.5	135512.920	2.5
82.4860	28.01	-2.72	13550.390	3.5	134783.140	2.5	82.9790	24.02	-2.69	17850.000	2.0	138362.400	2.0
82.4975	30.02	-1.75	140071.000	1.0	261286.800	1.0	82.9817	17.01	-0.25	11653.500	2.0	132162.000	3.0
82.5117	24.02	-2.10	17167.400	1.0	138362.400	2.0	82.9847	30.02	-2.27	144501.200	3.0	265005.300	2.0
82.5122	28.01	-2.28	0.000	2.5	121194.140	2.5	82.9856	30.02	-0.21	141327.000	4.0	261829.800	5.0
82.5135	28.01	-2.60	0.000	2.5	121192.320	3.5	82.9888	13.03	-1.11	685732.800	2.0	806231.000	1.0
82.5213	26.02	-3.61	738.900	2.0	121919.740	3.0	82.9891	26.02	-4.88	93512.640	4.0	214010.320	5.0
82.5223	8.02	-3.06	294001.600	2.0	415181.000	3.0	83.0041	26.02	-1.97	25142.400	3.0	145618.390	2.0
82.5228	28.01	-1.86	0.000	2.5	121178.560	3.5	83.0084	28.01	-8.26	10663.890	1.5	131133.580	2.5
82.5230	14.01	-1.78	42932.680	1.5	164111.000	2.5	83.0087	28.01	-8.70	14995.570	2.5	135464.860	3.5
82.5280	28.01	-4.41	10663.890	1.5	131834.940	2.5	83.0110	28.01	-9.09	14995.570	2.5	135461.550	2.5
82.5294	30.02	-0.79	141327.000	4.0	262495.900	4.0	83.0113	24.02	-2.17	18510.000	3.0	138975.500	3.0
82.5295	28.01	-1.82	16977.800	1.0	138146.600	0.0	83.0181	26.02	-2.90	21857.200	2.0	142312.900	3.0
82.5343	28.01	-3.00	0.000	2.5	121161.810	1.5	83.0206	28.01	-1.79	9330.040	3.5	129782.070	3.5
82.5346	18.00	-2.14	0.000	0.0	121161.356	1.0	83.0228	28.01	-8.16	14995.570	2.5	135444.470	3.5
82.5384	26.02	-2.78	21699.900	3.0	142855.590	4.0	83.0294	28.01	-8.49	10663.890	1.5	131103.180	2.5
82.5390	27.02	-0.44	17766.200	3.5	138921.000	4.5	83.0407	28.01	-1.68	13550.390	3.5	133973.330	2.5
82.5420	28.01	-5.15	9330.040	3.5	130480.550	3.5	83.0470	25.02	-8.18	29207.300	0.5	149621.000	0.5
82.5444	28.01	-2.52	0.000	2.5	121146.980	2.5	83.0483	28.01	-8.76	10663.890	1.5	131075.780	1.5
82.5485	28.01	-2.47	9330.040	3.5	130470.900	4.5	83.0498	26.02	-1.20	24558.800	5.0	144968.500	4.0
82.5579	28.01	-9.46	14995.570	2.5	136122.610	2.5	83.0506	8.03	-0.31	390161.200	0.5	510569.700	1.5
82.5590	24.02	-1.84	17850.000	2.0	138975.500	3.0	83.0530	28.01	-8.51	14995.570	2.5	135400.670	3.5
82.5614	19.04	-1.59	40077.000	1.5	161199.000	1.5	83.0565	28.01	-8.89	10663.890	1.5	131063.850	0.5
82.5634	30.02	-2.51	141327.000	4.0	262446.100	3.0	83.0607	24.02	-1.18	18581.600	4.0	138975.500	3.0
82.5825	25.02	-4.47	0.000	2.5	121091.080	1.5	83.0620	24.02	-5.56	355.800	3.0	120747.800	4.0
82.5844	27.02	-2.74	15201.900	2.5	136290.100	3.5	83.0625	16.02	-4.07	27159.100	0.0	147550.320	1.0
82.5867	26.02	-8.95	40999.870	2.0	162084.800	2.0	83.0634	26.02	-2.36	436.200	3.0	120826.170	2.0
82.5876	20.02	-0.71	226333.560	3.0	347417.050	3.0	83.0655	28.01	-1.42	14995.570	2.5	135382.530	1.5
82.5968	20.02	-2.24	225826.220	2.0	346896.260	2.0	83.0659	28.02	-2.15	16977.800	1.0	137364.100	1.0
82.6002	26.02	-4.28	89334.510	2.0	210399.570	3.0	83.0688	15.01	-1.00	21576.200	0.0	141958.400	1.0
82.6027	26.02	-4.05	89334.510	2.0	210396.000	2.0	83.0704	9.03	-2.61	469644.200	2.0	590024.000	2.0
82.6042	26.02	-4.10	89334.510	2.0	210393.670	1.0	83.0706	25.02	-4.67	29241.400	1.5	149621.000	0.5
82.6100	28.01	-2.06	0.000	2.5	121050.660	2.5	83.0774	20.02	-3.81	227388.560	2.0	347758.220	2.0
82.6105	20.02	-1.08	226333.560	3.0	347383.510	4.0	83.0797	25.02	-5.24	29167.700	2.5	149533.980	1.5
82.6117	26.02	-2.31	19404.800	2.0	140453.100	3.0	83.0807	28.01	-5.87	10115.660	2.5	130480.550	3.5
82.6138	28.02	-0.29	23108.700	4.0	144153.900	4.0	83.0843	26.02	-2.82	19404.800	2.0	139764.480	2.0
82.6156	28.01	-3.64	0.000	2.5	121042.520	1.5	83.0930	26.02	-2.47	21699.900	3.0	142047.000	4.0
82.6156	28.01	-1.89	0.000	2.5	121042.570	1.5	83.0943	25.02	-4.93	29167.700	2.5	149512.900	1.5
82.6324	28.01	-9.51	10115.660	2.5	131133.580	2.5	83.0952	24.02	-6.80	355.800	3.0	120699.700	3.0
82.6364	18.00	-0.65	0.000	0.0	121011.979	1.0	83.1071	25.02	-4.08	29207.300	0.5	149533.980	1.5
82.6383	28.01	-9.37	10115.660	2.5	131124.960	3.5	83.1075	8.03	-0.05	390248.000	1.5	510574.100	2.5
82.6386	26.02	-2.71	0.000	4.0	121008.780	3.0	83.1075	20.02	-0.86	227432.110	1.0	347758.220	2.0
82.6388	27.02	-4.03	17766.200	3.5	138774.700	2.5	83.1105	8.03	-1.01	390248.000	1.5	510569.700	1.5
82.6426	14.01	-1.41	43107.970	2.5	164111.000	2.5	83.1207	24.03	-2.84	37062.000	2.5	157369.000	2.5
82.6501	28.02	-0.47	14031.600	2.0	135023.600	3.0	83.1217	25.02	-4.44	29207.300	0.5	149512.900	1.5
82.6532	28.01	-9.77	10115.660	2.5	131103.180	2.5	83.1232	28.02	-1.06	14031.600	2.0	134334.900	3.0
82.6551	26.02	-2.91	20481.900	4.0	141466.530	3.0	83.1233	28.02	-2.31	16661.600	2.0	136964.800	3.0
82.6724	8.02	-1.88	294221.650	3.0	415181.000	3.0	83.1237	28.01	-2.00	13550.390	3.5	133853.040	4.5
82.6730	28.01	-8.83	14995.570	2.5	135954.090	3.5	83.1252	28.01	-2.34	13550.390	3.5	133850.830	3.5
82.6944	27.02	-3.73	15201.900	2.5	136129.100	2.5	83.1301	28.01	-2.56	1506.940	1.5	121800.340	1.5
82.6982	28.02	-4.40	1360.700	3.0	122282.300	2.0	83.1306	25.02	-4.27	29241.400	1.5	149533.980	1.5
82.6986	26.02	-3.46	30716.200	2.0	151637.300	1.0	83.1363	26.02	-1.85	24558.800	5.0	144843.240	5.0
82.6997	29.01	-1.75	0.000	0.0	120919.410	1.0	83.1375</						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
83.2686	28.01	-9.24	10115.660	2.5	130208.890	3.5	83.6278	16.02	-2.57	27159.100	0.0	146736.540	1.0
83.2728	26.02	-1.37	738.900	2.0	120826.170	2.0	83.6279	7.01	-1.19	92250.300	2.0	211827.670	2.0
83.2754	8.01	-4.49	0.000	1.5	120083.500	1.5	83.6289	7.01	-2.41	92251.800	1.0	211827.670	2.0
83.2851	30.02	-1.80	145243.900	2.0	265313.400	2.0	83.6375	28.01	-8.25	10663.890	1.5	130227.520	2.5
83.2856	28.01	-8.99	10115.660	2.5	130184.390	2.5	83.6456	23.02	-3.81	42371.200	1.5	161923.280	2.5
83.2858	23.02	-4.21	42267.400	2.5	162335.880	3.5	83.6481	27.02	-3.05	20194.900	1.5	139743.400	2.5
83.2870	25.02	-3.35	29167.700	2.5	149234.400	2.5	83.6502	26.02	-0.94	20300.800	5.0	139846.180	6.0
83.2870	13.03	-6.61	682869.300	1.0	802936.000	1.0	83.6513	9.03	-2.41	469644.200	2.0	589188.000	2.0
83.2899	26.02	-2.16	20688.400	1.0	140750.980	2.0	83.6514	28.01	-2.58	1506.940	1.5	121050.660	2.5
83.2927	8.02	-4.04	0.000	0.0	120058.500	1.0	83.6527	26.02	-1.99	21857.200	2.0	141399.040	2.0
83.2928	28.01	-9.25	10115.660	2.5	130174.030	1.5	83.6535	26.02	-0.49	21462.200	4.0	141002.990	4.0
83.2958	28.01	-3.89	1506.940	1.5	121561.060	1.5	83.6567	27.02	-2.22	20194.900	1.5	139731.000	1.5
83.3013	27.02	-0.95	17766.200	3.5	137812.400	3.5	83.6571	28.01	-2.21	1506.940	1.5	121042.520	1.5
83.3077	30.02	-1.52	142483.300	2.0	262520.200	2.0	83.6571	28.01	-2.26	1506.940	1.5	121042.520	1.5
83.3094	26.02	-2.90	50276.100	4.0	170310.600	3.0	83.6587	28.01	-8.29	10663.890	1.5	130197.230	1.5
83.3136	20.02	-0.91	227388.560	2.0	347417.050	3.0	83.6616	7.01	-0.64	92250.300	2.0	211779.450	1.0
83.3139	26.02	-3.06	24558.800	5.0	144586.830	5.0	83.6627	7.01	-1.15	92251.800	1.0	211779.450	1.0
83.3142	26.02	-2.60	24940.900	4.0	144968.500	4.0	83.6630	26.02	-1.01	24558.800	5.0	144085.970	4.0
83.3217	27.02	-3.50	20194.900	1.5	140211.600	2.5	83.6635	26.02	-1.59	20300.800	5.0	139827.170	4.0
83.3226	26.02	-3.63	50295.200	3.0	170310.600	3.0	83.6677	28.01	-8.85	10663.890	1.5	130184.390	2.5
83.3245	28.02	-5.13	2269.600	2.0	122282.300	2.0	83.6749	28.01	-9.03	10663.890	1.5	130174.030	1.5
83.3249	30.02	-3.35	145243.900	2.0	265256.100	3.0	83.6766	20.02	-1.09	227388.560	2.0	346896.260	2.0
83.3297	27.02	-1.33	20194.900	1.5	140200.100	1.5	83.6810	28.01	-5.15	8393.900	4.5	127895.330	3.5
83.3303	26.02	-1.52	21462.200	4.0	141466.530	3.0	83.6837	7.01	-0.99	92251.800	1.0	211749.350	0.0
83.3326	8.01	-0.19	0.000	1.5	120001.100	1.5	83.6876	28.01	-5.12	8393.900	4.5	127885.860	4.5
83.3382	25.02	-3.72	29241.400	1.5	149234.400	2.5	83.6932	28.01	-9.38	10663.890	1.5	130147.870	1.5
83.3489	28.01	-3.22	13550.390	3.5	133528.020	3.5	83.7040	28.02	-2.76	14031.600	2.0	133500.200	2.0
83.3533	26.02	-1.26	20481.900	4.0	140453.100	3.0	83.7048	28.02	-1.74	23108.700	4.0	142576.200	5.0
83.3547	28.01	-4.81	14995.570	2.5	134964.780	1.5	83.7067	9.03	-3.76	469644.200	2.0	589109.000	1.0
83.3592	30.02	-1.15	142483.300	2.0	262446.100	3.0	83.7071	20.02	-2.38	227432.110	1.0	346896.260	2.0
83.3624	26.02	-2.33	738.900	2.0	120697.100	1.0	83.7112	26.02	-0.50	20051.100	6.0	139509.440	5.0
83.3685	28.01	-1.95	1506.940	1.5	121456.320	1.5	83.7149	30.02	-2.12	142483.300	2.0	261936.400	1.0
83.3718	8.02	-3.41	113.900	1.0	120058.500	1.0	83.7252	30.02	-4.23	142483.300	2.0	261921.600	2.0
83.3759	26.02	-3.69	30716.200	2.0	150654.900	3.0	83.7261	28.02	-1.30	16661.600	2.0	136098.700	1.0
83.3759	8.02	-0.83	113.900	1.0	120052.600	2.0	83.7294	27.02	-3.77	20194.900	1.5	139627.200	1.5
83.3949	24.02	-2.19	18451.000	2.0	138362.400	2.0	83.7324	26.02	-3.35	25142.400	3.0	144570.530	3.0
83.3983	28.01	-1.44	10663.890	1.5	130570.420	1.5	83.7435	26.02	-1.01	20051.100	6.0	139463.360	5.0
83.4012	26.02	-2.59	24940.900	4.0	144843.240	5.0	83.7516	25.02	-7.63	29167.700	2.5	148568.400	2.5
83.4055	26.02	-2.55	25142.400	3.0	145038.610	3.0	83.7582	26.02	-1.98	24940.900	4.0	144332.210	4.0
83.4061	28.01	-0.25	13550.390	3.5	133445.750	4.5	83.7602	30.02	-1.04	145243.900	2.0	264632.400	3.0
83.4062	27.02	-2.01	17766.200	3.5	137661.400	4.5	83.7624	28.01	-0.44	14995.570	2.5	134380.820	3.5
83.4063	28.02	-1.42	23108.700	4.0	143003.700	4.0	83.7806	26.02	-1.04	25142.400	3.0	144501.740	2.0
83.4068	30.02	-3.13	141392.500	0.0	261286.800	1.0	83.7807	28.02	-3.67	14031.600	2.0	133390.800	3.0
83.4072	26.02	-1.33	932.400	1.0	120826.170	2.0	83.7894	30.02	-2.41	145966.600	3.0	265313.400	2.0
83.4175	28.01	-3.20	1506.940	1.5	121385.800	1.5	83.7905	26.02	-4.20	20481.900	4.0	139827.170	4.0
83.4181	6.00	-5.15	0.000	0.0	119878.000	1.0	83.7912	20.02	-2.42	228413.950	3.0	347758.220	2.0
83.4220	28.01	-1.69	10115.660	2.5	129988.050	2.5	83.7917	20.02	-2.10	227388.560	2.0	346732.190	1.0
83.4296	6.00	-5.05	16.400	1.0	119878.000	1.0	83.8033	25.02	-5.54	29241.400	1.5	148568.400	2.5
83.4360	24.02	-1.34	18510.000	3.0	138362.400	2.0	83.8048	26.02	-0.61	24558.800	5.0	143883.740	5.0
83.4392	18.00	-0.62	0.000	0.0	119847.810	1.0	83.8052	26.02	-0.49	20300.800	5.0	139625.170	4.0
83.4431	17.01	-1.66	0.000	2.0	119842.100	1.0	83.8053	28.01	-2.97	10663.890	1.5	129988.050	2.5
83.4462	8.01	-0.01	0.000	1.5	119837.700	2.5	83.8078	23.02	-2.47	42267.400	2.5	161588.040	3.5
83.4481	28.02	-2.54	16977.800	1.0	136812.700	2.0	83.8135	27.02	-0.25	16977.600	4.5	136290.100	3.5
83.4484	6.00	-4.67	43.400	2.0	119878.000	1.0	83.8166	28.02	-1.99	14031.600	2.0	133339.700	1.0
83.4543	26.02	-2.91	25142.400	3.0	144968.500	4.0	83.8201	26.02	-1.75	21699.900	3.0	141002.990	4.0
83.4598	28.01	-3.62	1506.940	1.5	121325.090	2.5	83.8209	23.02	-4.01	42267.400	2.5	161569.410	1.5
83.4656	17.01	-0.11	0.000	2.0	119809.900	3.0	83.8222	20.02	-1.37	227432.110	1.0	346732.190	1.0
83.4662	17.03	-0.63	491.000	1.0	120300.000	0.0	83.8227	28.01	-8.33	14995.570	2.5	134294.990	2.5
83.4667	28.02	-3.29	14031.600	2.0	133839.800	1.0	83.8260	16.01	-3.12	0.000	1.5	119294.700	2.5
83.4688	29.01	-4.65	21928.600	3.0	141733.900	2.0	83.8297	30.02	-1.39	145966.600	3.0	265256.100	3.0
83.4732	17.01	-0.71	0.000	2.0	119799.000	2.0	83.8314	26.02	-3.94	19404.800	2.0	138691.810	1.0
83.4745	26.02	-4.09	30857.800	3.0	150654.900	3.0	83.8352	27.02	-2.09	20918.500	1.5	140200.100	1.5
83.4746	28.01	-2.86	0.000	2.5	119796.980	2.5	83.8395	29.01	-2.36	21928.600	3.0	141204.100	3.0
83.4759	26.02	-1.18	20051.100	6.0	139844.180	6.0	83.8399	19.03	-4.71	16384.000	2.0	135659.000	1.0
83.4761	26.02	-4.98	79840.120	7.0	199634.920	6.0	83.8431	27.02	-1.90	37021.000	3.5	156291.400	2.5
83.4781	29.02	-3.09	2071.800	1.5	121863.700	1.5	83.8458	28.01	-9.69	14995.570	2.5	134262.070	3.5
83.4811	28.01	-3.18	14995.570	2.5	134783.140	2.5	83.8470	25.03	-3.73	53212.300	4.0	172477.200	4.0
83.4815	9.02	-3.52	344436.960	1.5	464223.930	1.5	83.8494	26.02	-1.99	436.200	3.0	119697.640	2.0
83.4843	17.03	-0.01	491.000	1.0	120274.000	1.0	83.8501	28.01	-9.76	14995.570	2.5	134256.050	2.5
83.4864	18.04	-0.11	2030.000	2.0	121810.000	3.0	83.8502	20.02	-3.64	227432.110	1.0	346692.340	0.0
83.4910	26.02	-1.41	24558.800	5.0	144332.210	4.0	83.8510	28.01	-8.69	14995.570	2.5	134254.690	1.5
83.4944	26.02	-0.80	30886.400	4.0	150654.900	3.0	83.8523	28.01	-8.40	14995.570	2.5	134252.850	3.5
83.4957	26.02	-1.91	21699.900	3.0	141466.530	3.0	83.8592	26.02	-2.34	932.400	1.0	120179.950	0.0
83.4968	17.03	-0.05	491.000	1.0	120256.000	2.0	83.8621	26.02	-3.74	738.900	2.0	119982.260	1.0
83.4971	26.02	-1.53	932.400	1.0	120697.100	1.0	83.8630	16.01	-0.75	0.000	1.5	119242.130	1.5
83.4991	9.03	-2.92	469644.200	2.0	589406.000	3.0	83.8707	26.02	-2.29	21462.200	4.0	140693.360	3.0
83.4994	30.02	-4.73	145243.900	2.0	265005.300	2.0	83.8837	28.01	-0.70	14995.570	2.5	134208.300	2.5
83.5002	18.00	-1.93	0.000	0.0	119760.220	1.0	83.8865	26.02	-0.94	20300.800	5.0	139509.440	5.0
83.5056	30.02	-3.02	142483.300	2.0	262235.800	3.0	83.8868	25.02	-				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
84.0289	15.01	-2.76	8882.600	2.0	127889.300	3.0	84.4621	13.03	-1.32	687834.700	2.0	806231.000	1.0
84.0314	20.02	-2.14	228413.950	3.0	347417.050	3.0	84.4625	27.02	-3.15	20918.500	.5	139314.200	.5
84.0326	26.02	-2.20	50276.100	4.0	169277.600	4.0	84.4632	15.02	-1.70	56919.300	.5	175314.100	1.5
84.0382	30.02	-4.12	145243.900	2.0	264237.400	1.0	84.4695	27.02	-3.09	37316.500	2.5	155702.400	1.5
84.0382	26.02	-4.53	21699.900	3.0	140693.360	3.0	84.4744	28.01	-1.79	0.000	2.5	118379.110	2.5
84.0400	26.02	-2.05	21462.200	4.0	140453.100	3.0	84.4749	28.01	-1.87	13550.390	3.5	131928.770	4.5
84.0460	26.02	-3.56	50295.200	3.0	169277.600	4.0	84.4786	28.02	-1.45	16977.800	1.0	135351.000	2.0
84.0467	26.02	-1.09	20481.900	4.0	139463.360	5.0	84.4845	26.02	-1.01	21462.200	4.0	139827.170	4.0
84.0493	28.01	-4.56	14995.570	2.5	133973.330	2.5	84.4856	24.02	-5.02	59.900	1.0	118423.300	2.0
84.0513	27.02	-4.77	37316.500	2.5	156291.400	2.5	84.4859	27.02	-4.50	17766.200	3.5	136129.100	2.5
84.0518	26.02	-4.72	25142.400	3.0	144116.640	3.0	84.4866	28.02	-1.31	16661.600	2.0	135023.600	3.0
84.0551	20.02	-4.43	228413.950	3.0	347383.510	4.0	84.4901	29.01	-1.00	22846.970	2.0	141204.100	3.0
84.0628	26.02	-1.59	738.900	2.0	119697.640	2.0	84.4950	26.02	-2.16	0.000	4.0	118350.240	4.0
84.0654	26.02	-1.91	1027.300	0.0	119982.260	1.0	84.4954	26.02	-1.21	24558.800	5.0	142908.480	5.0
84.0735	26.02	-1.43	25142.400	3.0	144085.970	4.0	84.5004	15.01	-3.45	0.000	0.0	118342.600	1.0
84.0740	26.02	-1.09	24940.900	4.0	143883.740	5.0	84.5012	15.02	-1.70	56919.300	.5	175260.800	.5
84.0810	17.03	.21	1341.000	2.0	120274.000	1.0	84.5140	20.02	-2.88	225826.220	2.0	344149.810	2.0
84.0869	26.02	-8.25	30088.840	3.0	149013.360	4.0	84.5242	28.02	-4.43	1360.700	3.0	119670.000	2.0
84.0879	28.01	-1.24	0.000	2.5	118923.200	3.5	84.5243	23.02	-8.81	42267.400	2.5	160576.620	3.5
84.0937	17.03	-4.60	1341.000	2.0	120256.000	2.0	84.5331	26.02	-1.99	24558.800	5.0	142855.590	4.0
84.1054	23.02	-3.36	42267.400	2.5	161165.810	2.5	84.5380	28.01	-3.89	1506.940	1.5	119796.980	2.5
84.1057	28.01	-1.17	0.000	2.5	118897.940	2.5	84.5396	9.02	-6.44	34123.200	1.5	152410.900	.5
84.1087	26.02	-1.70	21857.200	2.0	140750.980	2.0	84.5408	28.01	-7.04	8393.900	4.5	126679.980	4.5
84.1135	29.01	-1.97	22846.970	2.0	141733.900	2.0	84.5413	26.02	-4.46	436.200	3.0	118721.600	2.0
84.1199	27.02	-4.27	15201.900	2.5	134079.800	1.5	84.5419	28.01	-2.43	13550.390	3.5	131834.940	2.5
84.1205	28.01	-1.52	0.000	2.5	118877.090	1.5	84.5429	27.02	-2.09	15428.200	1.5	133711.400	2.5
84.1226	28.01	-2.55	0.000	2.5	118874.110	3.5	84.5442	15.04	-1.23	272961.100	.5	391242.400	1.5
84.1229	15.01	-4.82	8882.600	2.0	127756.300	2.0	84.5487	23.02	-4.35	44110.040	2.5	162385.110	3.5
84.1258	25.03	-5.25	53212.300	4.0	172081.900	3.0	84.5498	24.02	-4.59	20702.000	3.0	138975.500	3.0
84.1269	28.02	-1.67	17230.700	0.0	136098.700	1.0	84.5534	27.02	-3.11	15811.400	.5	134079.800	1.5
84.1295	29.02	-4.07	0.000	2.5	118864.300	3.5	84.5560	15.02	-1.31	57125.800	1.5	175376.600	2.5
84.1359	28.01	-3.20	14995.570	2.5	133850.830	3.5	84.5666	26.02	-1.89	436.200	3.0	118586.250	4.0
84.1427	17.01	-4.61	996.400	0.0	119842.100	1.0	84.5691	26.02	-4.97	0.000	4.0	118246.520	3.0
84.1495	26.02	-1.78	21857.200	2.0	140593.360	3.0	84.5720	24.02	-4.51	355.800	3.0	118598.200	3.0
84.1539	25.03	-2.96	53260.700	2.0	172090.600	1.0	84.5727	24.02	-5.35	181.900	2.0	118423.300	2.0
84.1548	28.01	-2.68	0.000	2.5	118828.610	2.5	84.5767	14.01	-1.37	287.320	1.5	118523.190	2.5
84.1566	28.01	-3.98	8393.900	4.5	127219.970	3.5	84.5768	14.01	-2.33	287.320	1.5	118523.120	1.5
84.1601	25.03	-6.16	53260.700	2.0	172081.900	3.0	84.5839	23.02	-4.44	44110.040	2.5	162335.880	3.5
84.1628	30.02	-4.60	145666.600	3.0	264783.900	4.0	84.5893	26.02	-2.52	21462.200	4.0	139580.470	3.0
84.1662	27.02	-1.69	20918.500	.5	139731.000	.5	84.5925	28.01	-2.54	14995.570	2.5	133209.300	2.5
84.1684	26.02	-4.98	30716.200	2.0	149525.630	2.0	84.5928	26.02	-4.38	20051.100	6.0	138264.470	6.0
84.1685	28.01	-3.13	0.000	2.5	118809.340	1.5	84.6030	26.02	-4.72	30716.200	2.0	148915.300	1.0
84.1687	28.01	-4.70	1506.940	1.5	120316.020	.5	84.6062	28.01	-3.77	14995.570	2.5	133190.190	1.5
84.1726	30.02	-4.28	142483.300	2.0	261286.800	1.0	84.6095	28.01	-9.16	10663.890	1.5	128853.870	2.5
84.1752	26.02	-2.06	30725.800	1.0	149525.630	2.0	84.6099	26.02	-1.01	30725.800	1.0	148915.300	1.0
84.1785	25.03	-4.05	53286.700	3.0	172081.900	3.0	84.6107	15.02	-1.59	57125.800	1.5	175314.100	1.5
84.1789	23.02	-2.72	42371.200	1.5	161165.810	2.5	84.6139	25.02	-4.01	26824.400	5.5	145008.360	6.5
84.1845	28.02	-2.20	14031.600	2.0	132818.300	2.0	84.6183	15.01	-3.47	164.800	1.0	118342.600	1.0
84.1853	25.02	-4.15	26857.800	2.5	145643.450	2.5	84.6207	28.01	-2.10	14995.570	2.5	133169.920	3.5
84.1867	25.02	-3.09	26859.900	3.5	145643.450	2.5	84.6229	26.02	-3.05	21462.200	4.0	139525.170	4.0
84.1870	26.02	-6.51	19404.800	2.0	138187.930	3.0	84.6282	28.01	-8.87	10663.890	1.5	128822.230	1.5
84.1924	27.02	-2.49	20194.900	1.5	138970.500	1.5	84.6337	26.02	-2.38	19404.800	2.0	137561.100	1.0
84.1934	13.03	-1.02	687456.800	1.0	806231.000	1.0	84.6342	26.02	-4.20	30857.800	3.0	149013.360	4.0
84.1997	26.02	-1.99	932.400	1.0	119697.640	2.0	84.6382	9.02	-6.19	34087.400	2.5	152237.400	1.5
84.1999	28.01	-1.70	1506.940	1.5	120271.970	2.5	84.6407	16.01	-4.23	0.000	1.5	118146.500	1.5
84.2020	26.02	-4.54	24558.800	5.0	143320.850	6.0	84.6449	15.04	-1.51	272961.100	.5	391101.700	.5
84.2023	28.01	-1.42	13550.390	3.5	132311.980	4.5	84.6455	26.02	-2.61	19404.800	2.0	137544.600	2.0
84.2083	26.02	-2.83	21699.900	3.0	140453.100	3.0	84.6473	29.01	-5.39	22846.970	2.0	140984.200	1.0
84.2096	28.01	-8.46	10115.660	2.5	128867.000	3.5	84.6483	28.01	-8.93	10663.890	1.5	128799.720	.5
84.2136	28.02	-2.26	0.000	4.0	118745.700	3.0	84.6487	25.02	-1.05	26824.400	5.5	144959.740	4.5
84.2189	28.01	-8.40	10115.660	2.5	128853.870	2.5	84.6489	15.02	-2.40	57125.800	1.5	175260.800	.5
84.2237	15.01	-4.70	8882.600	2.0	127600.000	1.0	84.6532	26.02	-4.87	738.900	2.0	118867.870	1.0
84.2347	28.01	-1.72	1506.940	1.5	120222.890	1.5	84.6545	26.02	-3.14	21699.900	3.0	139827.170	4.0
84.2398	27.02	-2.89	20918.500	.5	139627.200	1.5	84.6547	26.02	-2.67	30886.400	4.0	149013.360	4.0
84.2413	28.01	-8.76	10115.660	2.5	128822.230	1.5	84.6567	24.02	-3.68	20851.300	4.0	138975.500	3.0
84.2484	28.01	-1.92	1506.940	1.5	120203.490	2.5	84.6574	25.03	-4.27	53260.700	2.0	171383.900	1.0
84.2495	29.01	-1.31	22846.970	2.0	141542.100	2.0	84.6638	9.02	-5.42	34123.200	1.5	152237.400	1.5
84.2515	28.01	-2.09	1506.940	1.5	120199.180	1.5	84.6645	23.02	-4.79	44646.960	4.5	162760.280	4.5
84.2535	28.02	-1.14	16661.600	2.0	135351.000	2.0	84.6652	23.02	-4.88	42267.400	2.5	160379.640	2.5
84.2558	26.02	-2.37	0.000	4.0	118686.250	4.0	84.6678	25.02	-2.27	26851.100	4.5	144959.740	4.5
84.2583	28.01	-2.34	1506.940	1.5	120189.550	.5	84.6741	25.02	-3.75	26859.900	3.5	144959.740	4.5
84.2688	26.02	-4.43	30857.800	3.0	149525.630	2.0	84.6946	29.01	-4.95	0.000	0.0	118071.340	1.0
84.2703	30.02	-1.99	145966.600	3.0	264632.400	3.0	84.6962	26.02	-4.89	83138.230	5.0	201207.290	4.0
84.2747	28.01	-2.67	1506.940	1.5	120166.520	1.5	84.6973	24.02	-5.25	355.800	3.0	118423.300	2.0
84.2804	27.02	-3.06	15428.200	1.5	134079.800	1.5	84.6994	25.03	-3.04	53212.300	4.0	171276.900	3.0
84.2805	18.00	-2.17	0.000	0.0	118651.447	1.0	84.6994	26.02	-4.81	21699.900	3.0	139764.480	2.0
84.2978	27.02	-2.65	22720.300	5.5	141347.300	4.5	84.7058	25.02	-3.34	26824.400	5.5	144880.100	5.5
84.3199	26.02	-1.89	21857.200	2.0	140453.100	3.0	84.7061	24.02	-5.60	0.000	0.0	118055.200	1.0
84.3260	12.03	-3.36	604666.600	1.5	723254.000	1.5	84.7066	23.02	-4.90	42267.400	2.5	160321.890	2.5</

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
84.7761	25.02	-2.20	26859.900	3.5	144817.680	3.5
84.7812	23.02	-4.19	42371.200	1.5	160321.890	2.5
84.7854	30.02	-2.34	144501.200	3.0	262446.100	3.0
84.7921	26.02	-0.86	932.400	1.0	118867.870	1.0
84.7966	26.02	-1.02	30725.800	1.0	148655.000	0.0
84.7995	26.02	-0.59	21699.900	3.0	139625.170	4.0
84.8017	15.02	-1.67	57454.500	2.5	175376.600	2.5
84.8049	13.03	-0.36	688313.300	2.0	806231.000	1.0
84.8057	28.01	-8.63	14995.570	2.5	132912.150	2.5
84.8068	14.01	-2.32	0.000	0.5	117915.060	0.5
84.8071	26.02	-1.35	24940.900	4.0	142855.590	4.0
84.8075	26.02	-2.21	436.200	3.0	118350.240	4.0
84.8083	27.02	-0.09	23434.300	4.5	141347.300	4.5
84.8124	26.02	-2.81	21857.200	2.0	139764.480	2.0
84.8249	28.01	-5.18	9330.040	3.5	127219.970	3.5
84.8343	23.02	-5.73	42267.400	2.5	160144.260	1.5
84.8366	28.01	-7.97	14995.570	2.5	132869.160	3.5
84.8366	15.01	-3.47	469.000	2.0	118342.600	1.0
84.8369	24.02	-6.44	181.900	2.0	118055.200	1.0
84.8372	28.01	-2.50	0.000	2.5	117872.780	2.5
84.8467	15.02	-2.61	57454.500	2.5	175314.100	1.5
84.8529	28.01	-9.92	14995.570	2.5	132846.530	3.5
84.8604	26.02	-1.23	1027.300	0.0	118867.870	1.0
84.8648	15.02	-0.77	0.000	0.5	117834.500	0.5
84.8729	26.02	-0.75	21857.200	2.0	139680.470	3.0
84.8779	20.02	-2.86	226333.560	3.0	344149.810	2.0
84.8790	30.02	-0.98	147498.600	1.0	265313.400	2.0
84.8791	25.02	-2.44	26857.800	2.5	144672.380	2.5
84.8801	23.02	-2.88	44110.040	2.5	161923.280	2.5
84.8806	29.01	-0.88	21928.600	3.0	139741.100	3.0
84.8807	25.02	-1.39	26859.900	3.5	144672.380	2.5
84.8808	9.02	-4.68	34087.400	2.5	151899.700	2.5
84.8822	26.02	-1.42	436.200	3.0	118246.520	3.0
84.8880	26.02	-1.60	20300.800	5.0	138103.120	4.0
84.8918	19.03	-2.22	16384.000	2.0	344181.000	2.0
84.8974	26.02	-1.34	932.400	1.0	118721.600	2.0
84.9007	14.03	-2.57	218266.860	0.5	336051.550	1.5
84.9029	29.01	-2.22	21928.600	3.0	139710.200	2.0
84.9043	28.01	-4.91	10115.660	2.5	127895.330	3.5
84.9066	9.02	-5.82	34123.200	1.5	151899.700	2.5
84.9091	23.02	-4.75	42371.200	1.5	160144.260	1.5
84.9098	27.02	-1.96	22720.300	5.5	140492.400	4.5
84.9157	28.01	-2.36	0.000	2.5	117763.910	1.5
84.9175	25.02	-1.57	26857.800	2.5	144619.190	1.5
84.9212	27.02	-1.16	23434.300	4.5	141190.500	5.5
84.9230	26.02	-3.92	20300.800	5.0	138054.590	5.0
84.9256	8.00	-3.60	15867.862	2.0	133618.000	1.0
84.9256	8.00	-2.48	15867.862	2.0	133618.000	2.0
84.9313	30.02	-1.49	147571.200	1.0	265313.400	2.0
84.9342	23.02	-1.96	44646.960	4.5	162385.110	3.5
84.9360	29.01	-0.87	23998.220	1.0	141733.900	2.0
84.9368	30.02	-1.08	144501.200	3.0	262235.800	3.0
84.9401	26.02	-7.46	40999.870	2.0	158729.890	3.0
84.9412	27.02	-2.33	23058.800	2.5	140787.300	2.5
84.9420	26.02	-3.53	436.200	3.0	118163.560	2.0
84.9484	27.02	-0.67	16977.600	4.5	134696.100	5.5
84.9522	26.02	-0.83	25142.400	3.0	142855.590	4.0
84.9527	26.02	-1.36	20051.100	6.0	137763.700	5.0
84.9574	26.02	-1.47	20481.900	4.0	138187.930	3.0
84.9589	26.02	-1.41	738.900	2.0	118442.920	3.0
84.9633	25.02	-0.87	26824.400	5.5	144522.300	4.5
84.9698	23.02	-3.80	44646.960	4.5	162335.880	3.5
84.9810	28.02	-1.81	16661.600	2.0	134334.900	3.0
84.9826	25.02	-3.97	26851.100	4.5	144522.300	4.5
84.9889	25.02	-5.24	26859.900	3.5	144522.300	4.5
84.9891	28.01	-2.89	0.000	2.5	117662.110	1.5
84.9904	24.02	-3.74	20702.000	3.0	138362.400	2.0
85.0065	27.02	-1.03	22720.300	5.5	140358.400	4.5
85.0067	27.02	-0.97	17766.200	3.5	135404.000	4.5
85.0140	14.01	-2.02	287.320	1.5	117915.060	0.5
85.0146	23.02	-3.01	43942.490	1.5	161569.410	1.5
85.0175	14.03	-2.29	218428.670	1.5	336051.550	2.5
85.0175	14.03	-3.25	218428.670	1.5	336051.550	1.5
85.0187	26.02	-1.73	20481.900	4.0	138103.120	4.0
85.0293	28.02	-3.83	0.000	4.0	117606.500	3.0
85.0300	25.03	-5.16	53260.700	2.0	170866.300	2.0
85.0437	27.02	-1.04	23058.800	2.5	140645.400	3.5
85.0488	25.03	-2.96	53286.700	3.0	170866.300	2.0
85.0499	13.03	-0.73	688653.000	1.0	806231.000	1.0
85.0503	23.02	-2.16	44345.820	3.5	161923.280	2.5
85.0538	26.02	-2.28	20481.900	4.0	138054.590	5.0
85.0546	28.02	-4.42	16661.600	2.0	134233.100	2.0
85.0601	18.03	-0.03	0.000	1.5	117564.000	2.5
85.0699	9.02	-4.13	348702.800	0.5	466253.240	1.5
85.0746	29.01	-3.63	23998.220	1.0	141542.100	2.0
85.0905	26.02	-4.94	0.000	4.0	117521.910	4.0
85.1009	26.02	-5.32	738.900	2.0	118246.520	3.0
85.1015	30.02	-4.02	147498.600	1.0	265005.300	2.0
85.1056	11.02	-4.58	411963.900	1.5	529465.000	2.5
85.1149	26.02	-0.26	24558.800	5.0	142047.000	4.0
85.1161	25.02	-0.76	26824.400	5.5	144311.000	5.5
85.1167	9.03	-0.90	469644.200	2.0	587130.000	2.0
85.1185	26.02	-1.19	21208.500	0.0	138691.810	1.0
85.1223	23.02	-6.36	44110.040	2.5	161588.040	3.5
85.1301	29.01	-0.36	21928.600	3.0	139395.800	4.0
85.1333	26.02	-0.46	20300.800	5.0	137763.700	5.0
85.1354	25.02	-3.89	26851.100	4.5	144311.000	5.5
85.1358	23.02	-2.43	44110.040	2.5	161569.410	1.5
85.1369	9.02	-0.15	348817.600	1.5	466275.500	2.5
85.1528	28.02	-1.63	23108.700	4.0	140544.700	3.0
85.1530	9.02	-0.00	348817.600	1.5	466253.240	1.5
85.1541	30.02	-0.98	147571.200	1.0	265005.300	2.0
85.1541	25.02	-3.64	26824.400	5.5	144258.500	6.5
85.1607	26.02	-0.43	49576.900	1.0	167002.000	2.0
85.1610	26.02	-2.69	738.900	2.0	118163.560	2.0
85.1630	27.02	-0.93	15201.900	2.5	132623.800	3.5
85.1641	30.02	-1.57	144501.200	3.0	261921.600	2.0
85.1662	26.02	-0.78	40999.870	2.0	158417.310	2.0
85.1727	30.02	-1.53	144501.200	3.0	261909.700	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
85.1769	29.01	-1.41	21928.600	3.0	139331.300	3.0
85.1786	28.02	-1.97	2269.600	2.0	119670.000	2.0
85.1842	26.02	-0.48	25142.400	3.0	142535.070	2.0
85.1845	26.02	-1.19	19404.800	2.0	136797.050	3.0
85.1848	30.02	-1.37	147921.500	2.0	265313.400	2.0
85.1854	28.01	-2.53	1506.940	1.5	118897.940	2.5
85.1858	27.02	-0.90	15201.900	2.5	132592.400	1.5
85.1868	26.02	-1.79	19404.800	2.0	136793.820	2.0
85.1898	28.02	-2.87	1360.700	3.0	118745.700	3.0
85.1992	26.02	-0.38	24940.900	4.0	142312.900	3.0
85.2005	28.01	-2.23	1506.940	1.5	118877.090	1.5
85.2083	12.02	-4.69	467378.500	1.0	584737.900	2.0
85.2152	28.01	-6.66	9330.040	3.5	126679.980	4.5
85.2264	30.02	-0.58	147921.500	2.0	265256.100	3.0
85.2314	30.02	-1.16	147498.600	1.0	264626.300	1.0
85.2340	27.02	-0.65	23058.800	2.5	140382.900	3.5
85.2357	28.01	-0.16	1506.940	1.5	118828.610	2.5
85.2391	25.03	-3.03	53260.700	2.0	170577.800	1.0
85.2497	28.01	-0.67	1506.940	1.5	118809.340	1.5
85.2540	11.02	-0.63	412201.500	0.5	529498.000	1.5
85.2597	29.01	-2.01	21928.600	3.0	139217.300	2.0
85.2609	27.02	-3.28	15201.900	2.5	132489.000	2.5
85.2647	26.02	-1.15	20481.900	4.0	137763.700	5.0
85.2687	30.02	-0.89	145243.900	2.0	262520.200	2.0
85.2697	15.02	-0.47	559.600	1.5	117834.500	0.5
85.2746	9.02	-4.05	349007.250	2.5	466275.500	2.5
85.2749	28.01	-2.27	1506.940	1.5	118774.760	0.5
85.2820	12.03	-3.56	597071.900	1.5	714330.000	0.5
85.2840	28.02	-3.00	16977.800	1.0	134233.100	2.0
85.2841	30.02	-1.82	147571.200	1.0	264626.300	1.0
85.2871	28.02	-2.11	0.000	4.0	117251.000	3.0
85.2905	29.01	-1.37	23998.220	1.0	141244.600	1.0
85.2908	9.02	-0.98	349007.250	2.5	466253.240	1.5
85.2935	23.02	-3.31	44345.820	3.5	161588.040	3.5
85.2978	25.02	-4.01	32384.700	1.5	149621.000	0.5
85.3016	26.02	-2.53	932.400	1.0	118163.560	2.0
85.3027	28.01	-2.78	14995.570	2.5	132225.150	1.5
85.3045	26.02	-1.61	20300.800	5.0	137527.920	4.0
85.3073	23.02	-4.02	43942.490	1.5	161165.810	2.5
85.3119	25.02	-3.33	32404.000	0.5	149621.000	0.5
85.3126	28.01	-6.13	10115.660	2.5	127331.600	2.5
85.3162	27.02	-1.35	23634.300	4.5	140645.400	3.5
85.3219						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
85.5514	26.02	-1.30	30725.800	1.0	147614.650	2.0	85.8393	28.02	-4.48	16661.600	2.0	133158.300	3.0
85.5529	27.02	-1.95	15428.200	1.5	132314.900	.5	85.8414	25.02	-2.94	26851.100	4.5	143345.070	3.5
85.5543	26.02	-2.23	20688.400	1.0	137573.200	0.0	85.8457	26.02	-2.20	21699.900	3.0	138187.930	3.0
85.5625	15.02	.23	0.000	.5	116873.600	1.5	85.8463	25.02	-6.94	26857.800	2.5	143345.070	3.5
85.5632	26.02	-2.50	20688.400	1.0	137561.100	1.0	85.8478	25.02	-4.48	26859.900	3.5	143345.070	3.5
85.5636	28.01	-4.61	1506.940	1.5	118379.110	2.5	85.8485	29.01	-1.08	22846.970	2.0	139331.300	3.0
85.5656	20.02	-1.90	227388.560	2.0	344257.920	1.0	85.8520	30.02	-2.92	145966.600	3.0	262446.100	3.0
85.5701	29.01	-1.07	22846.970	2.0	139710.200	2.0	85.8545	28.02	-5.66	2269.600	2.0	118745.700	3.0
85.5706	15.02	-2.35	57125.800	1.5	173988.400	1.5	85.8548	25.02	-8.80	29167.700	2.5	145643.450	2.5
85.5710	28.02	-1.44	16977.800	1.0	133839.800	1.0	85.8550	26.02	-1.35	0.000	4.0	116475.440	3.0
85.5712	12.03	-4.96	596527.300	2.5	713389.000	2.5	85.8559	6.01	-8.80	63.420	1.5	116537.650	.5
85.5734	25.02	-1.32	29207.300	.5	146066.070	1.5	85.8564	29.01	-1.91	21928.600	3.0	138402.200	3.0
85.5753	26.02	-1.51	20688.400	1.0	137544.600	2.0	85.8609	26.02	-7.75	0.000	4.0	116467.410	4.0
85.5786	25.02	-4.38	0.000	2.5	116851.690	3.5	85.8615	23.02	-1.91	44110.040	2.5	160576.620	3.5
85.5793	25.02	-4.94	32383.700	2.5	149234.400	2.5	85.8649	26.02	-3.11	436.200	3.0	116898.220	2.0
85.5800	25.02	-5.38	32384.700	1.5	149234.400	2.5	85.8696	27.02	-3.23	15428.200	1.5	131883.900	2.5
85.5840	17.02	-4.71	29905.600	1.5	146749.900	2.5	85.8781	26.02	-1.47	24558.800	5.0	141002.990	4.0
85.5869	26.02	-1.05	30716.200	2.0	147556.450	1.0	85.8796	8.00	-4.20	15867.862	2.0	132310.000	1.0
85.5876	28.01	-3.13	14995.570	2.5	131834.940	2.5	85.8796	8.00	-3.16	15867.862	2.0	132310.000	2.0
85.5882	28.02	-2.38	16661.600	2.0	133500.200	2.0	85.8804	7.00	-7.09	0.000	1.5	116441.000	.5
85.5884	9.02	-4.00	348702.800	.5	465541.000	1.5	85.8804	7.00	-6.40	0.000	1.5	116441.000	1.5
85.5911	26.02	-1.59	21857.200	2.0	138691.810	1.0	85.8804	7.00	-6.48	0.000	1.5	116441.000	2.5
85.5934	28.02	-1.45	14031.600	2.0	130863.000	1.0	85.8829	28.01	-2.29	13550.390	3.5	129988.050	2.5
85.5937	26.02	-5.91	19404.800	2.0	136235.840	1.0	85.8832	23.02	-3.25	43942.490	1.5	160379.640	2.5
85.5940	26.02	-.82	30725.800	1.0	147556.450	1.0	85.8841	7.00	-7.43	0.000	1.5	116436.000	1.5
85.5975	20.02	-2.68	227432.110	1.0	344257.920	1.0	85.8841	7.00	-8.09	0.000	1.5	116436.000	2.5
85.5982	26.02	-4.71	34812.400	0.0	151637.300	1.0	85.8860	28.02	-1.91	16661.600	2.0	133095.000	3.0
85.5984	25.02	-1.65	29241.400	1.5	146066.070	1.5	85.8980	27.02	-.41	22720.300	5.5	139137.500	5.5
85.5987	28.01	-3.59	0.000	2.5	116824.150	2.5	85.9056	9.02	-2.38	349007.250	2.5	465414.140	2.5
85.6018	23.02	-3.47	44345.820	3.5	161165.810	2.5	85.9083	26.02	-.85	21699.900	3.0	138103.120	4.0
85.6039	26.02	-.40	50184.900	2.0	167002.000	2.0	85.9091	25.02	-1.30	29241.400	1.5	145643.450	2.5
85.6098	26.02	-1.54	50276.100	4.0	167085.120	3.0	85.9130	26.02	-4.86	89783.590	4.0	206180.410	3.0
85.6199	26.02	-3.08	19404.800	2.0	136200.130	3.0	85.9133	20.02	-4.73	227388.560	2.0	343784.960	1.0
85.6227	27.02	-3.06	23434.300	4.5	140225.800	3.5	85.9146	29.01	-1.89	22846.970	2.0	139241.600	1.0
85.6238	26.02	-.42	50295.200	3.0	167085.120	3.0	85.9164	8.02	-1.29	306584.800	2.0	422977.000	3.0
85.6304	27.02	-3.38	15811.400	.5	132592.400	1.5	85.9166	24.02	-4.46	575.000	4.0	116967.000	4.0
85.6325	26.02	-.30	30857.800	3.0	147635.950	3.0	85.9222	27.02	-1.59	23434.300	4.5	139818.700	3.5
85.6449	20.02	-2.94	227388.560	2.0	344149.810	2.0	85.9252	23.02	-1.81	44646.960	4.5	161027.320	4.5
85.6458	27.02	-1.15	23058.800	2.5	139818.700	3.5	85.9256	27.02	-3.06	15201.900	2.5	131581.600	3.5
85.6481	26.02	-1.00	30857.800	3.0	147614.650	2.0	85.9259	23.02	-2.07	43942.490	1.5	160321.890	2.5
85.6497	28.02	-1.69	1360.700	3.0	118115.300	2.0	85.9326	29.01	-1.97	22846.970	2.0	139217.300	2.0
85.6534	26.02	-3.73	30886.400	4.0	147635.950	3.0	85.9350	7.00	-7.55	0.000	1.5	116367.000	.5
85.6579	24.02	-7.42	355.800	3.0	117099.300	4.0	85.9350	7.00	-7.59	0.000	1.5	116367.000	2.5
85.6604	12.03	-4.19	597589.900	.5	714330.000	.5	85.9359	28.01	-2.45	1506.940	1.5	117872.780	2.5
85.6613	30.02	-1.90	147498.600	1.0	264237.400	1.0	85.9388	28.02	-1.34	16977.800	1.0	133339.700	1.0
85.6684	28.02	-1.47	16661.600	2.0	133390.800	3.0	85.9409	7.00	-6.37	0.000	1.5	116359.000	2.5
85.6694	26.02	-2.36	20481.900	4.0	137209.730	4.0	85.9410	15.02	-1.44	57454.500	2.5	173813.400	2.5
85.6709	26.02	-3.75	21462.200	4.0	138187.930	3.0	85.9450	26.02	-4.52	89907.850	4.0	206261.330	4.0
85.6726	9.02	-3.37	348817.600	1.5	465541.000	.5	85.9450	26.02	-4.95	89907.850	5.0	206261.330	4.0
85.6726	9.02	-3.41	348817.600	1.5	465541.000	1.5	85.9455	20.02	-3.49	227432.110	1.0	343784.960	1.0
85.6746	13.02	-1.15	53916.600	1.5	170637.350	.5	85.9457	26.02	-2.38	21208.500	0.0	137561.100	1.0
85.6768	20.02	-4.21	227432.110	1.0	344149.810	2.0	85.9461	25.02	-4.71	26857.800	2.5	143209.800	2.5
85.6802	26.02	-5.12	19404.800	2.0	136117.940	2.0	85.9468	7.00	-6.67	0.000	1.5	116351.000	.5
85.6804	17.02	-4.49	29812.800	.5	146525.600	1.5	85.9468	7.00	-6.72	0.000	1.5	116351.000	1.5
85.6818	30.02	-2.45	147921.500	2.0	264632.400	3.0	85.9474	24.02	-5.46	181.900	2.0	116532.100	3.0
85.6848	26.02	-1.30	50295.200	3.0	167002.000	2.0	85.9476	25.02	-3.22	26859.900	3.5	143209.800	2.5
85.6953	30.02	-1.46	145243.900	2.0	261935.400	1.0	85.9571	25.02	-2.82	26824.400	5.5	143161.500	4.5
85.6956	25.02	-5.16	0.000	2.5	116692.140	2.5	85.9582	23.02	-1.96	44345.820	3.5	160681.480	3.5
85.6989	15.02	-1.81	57125.800	1.5	173813.400	2.5	85.9611	24.02	-4.60	59.900	1.0	116391.600	2.0
85.7011	27.02	-4.50	23058.800	2.5	139743.400	2.5	85.9618	26.02	-1.01	21857.200	2.0	138187.930	3.0
85.7012	26.02	-8.83	40999.870	2.0	157684.300	2.0	85.9626	26.02	-.81	738.900	2.0	117068.560	3.0
85.7030	27.02	-4.27	15201.900	2.5	131883.900	2.5	85.9658	15.02	.48	559.600	1.5	116884.900	2.5
85.7034	23.02	-4.57	44345.820	3.5	161027.320	4.5	85.9667	26.02	-3.70	25142.400	3.0	141466.530	3.0
85.7059	28.02	-1.51	16661.600	2.0	133339.700	1.0	85.9719	12.03	-3.44	597071.900	1.5	713389.000	2.5
85.7062	30.02	-3.11	145243.900	2.0	261921.600	2.0	85.9722	26.02	.03	0.000	4.0	116316.630	5.0
85.7085	28.02	-.95	0.000	4.0	116674.500	4.0	85.9728	30.02	-1.61	147921.500	2.0	264237.400	1.0
85.7098	26.02	-4.44	50412.300	2.0	167085.120	3.0	85.9733	26.02	-2.48	20481.900	4.0	136797.050	3.0
85.7135	28.01	-5.72	10663.890	1.5	127331.600	2.5	85.9742	15.02	-.47	559.600	1.5	116873.600	1.5
85.7146	30.02	-1.45	147571.200	1.0	264237.400	1.0	85.9748	26.02	-.66	50184.900	2.0	166498.000	3.0
85.7332	26.02	-2.14	21462.200	4.0	138103.120	4.0	85.9757	26.02	-3.91	20300.800	5.0	136612.780	4.0
85.7395	26.02	-.91	436.200	3.0	117068.560	3.0	85.9757	7.00	-4.40	0.000	1.5	116312.000	.5
85.7449	7.00	-8.75	0.000	1.5	116625.000	1.5	85.9757	7.00	-3.70	0.000	1.5	116312.000	1.5
85.7449	7.00	-8.71	0.000	1.5	116625.000	2.5	85.9757	7.00	-3.70	0.000	1.5	116312.000	2.5
85.7463	28.01	-4.69	10115.660	2.5	126738.820	1.5	85.9768	25.02	-3.13	26851.100	4.5	143161.500	4.5
85.7486	17.02	-6.23	29905.600	1.5	146525.600	1.5	85.9808	7.00	-4.17	0.000	1.5	116305.000	.5
85.7545	24.02	-5.88	575.000	4.0	117185.900	5.0	85.9808	7.00	-4.66	0.000	1.5	116305.000	1.5
85.7551	24.02	-6.22	355.800	3.0	116967.000	4.0	85.9819	26.02	-2.79	30857.800	3.0	147161.360	4.0
85.7563	28.01	-3.22	8393.900	4.5	125003.440	5.5	85.9833	25.02	-3.73	26859.900	3.5	143161.500	4.5
85.7566	28.02	-3.07	17230.700	0.0	133839.800	1.0	85.9834	26.02	-2.67	21462.200	4.0	137763.700	5.0
85.7604	26.02	-2.13	19404										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
86.0357	23.02	-5.79	44345.820	3.5	160576.620	3.5
86.0423	26.02	-1.64	50276.100	4.0	166498.000	3.0
86.0497	23.02	-3.35	44110.040	2.5	160321.890	2.5
86.0513	24.02	-4.62	181.900	2.0	116391.600	2.0
86.0551	14.03	-1.16	160374.410	2.5	276579.030	1.5
86.0560	14.03	-2.12	160375.600	1.5	276579.030	1.5
86.0564	26.02	-1.76	50295.200	3.0	166498.000	3.0
86.0572	23.02	-2.30	43942.490	1.5	160144.260	1.5
86.0580	27.02	-1.87	22720.300	5.5	138921.000	4.5
86.0595	26.02	-1.93	738.900	2.0	116937.570	1.0
86.0644	28.02	-1.19	0.000	4.0	116192.100	4.0
86.0699	25.02	-4.23	32383.700	2.5	148568.400	2.5
86.0706	25.02	-4.12	32384.700	1.5	148568.400	2.5
86.0724	29.01	-3.42	22846.970	2.0	139028.200	2.0
86.0761	24.02	-4.31	355.800	3.0	116532.100	3.0
86.0772	26.02	-2.28	30716.200	2.0	146891.040	3.0
86.0852	7.00	-7.53	0.000	1.5	116164.000	.5
86.0852	7.00	-6.86	0.000	1.5	116164.000	1.5
86.0852	7.00	-6.36	0.000	1.5	116164.000	2.5
86.0887	26.02	-1.79	738.900	2.0	116898.220	2.0
86.0889	7.00	-7.35	0.000	1.5	116159.000	2.5
86.0906	28.02	-1.84	16661.600	2.0	132818.300	2.0
86.0917	28.01	-3.06	1506.940	1.5	117662.110	1.5
86.0919	7.00	-6.65	0.000	1.5	116155.000	.5
86.0919	7.00	-7.64	0.000	1.5	116155.000	1.5
86.0971	9.02	-2.38	349266.200	3.5	465414.140	2.5
86.1045	28.01	-9.21	14995.570	2.5	131133.580	2.5
86.1074	26.02	-1.43	20051.100	6.0	136185.170	5.0
86.1097	26.02	-1.94	20481.900	4.0	136612.780	4.0
86.1108	28.01	-9.08	14995.570	2.5	131124.960	3.5
86.1118	14.03	-1.42	160375.600	1.5	276503.670	.5
86.1148	7.00	-4.33	0.000	1.5	116124.000	.5
86.1148	7.00	-3.63	0.000	1.5	116124.000	1.5
86.1148	7.00	-3.66	0.000	1.5	116124.000	2.5
86.1260	28.02	-1.84	17230.700	0.0	133339.700	1.0
86.1270	28.01	-9.48	14995.570	2.5	131103.180	2.5
86.1275	7.00	-4.11	0.000	1.5	116107.000	.5
86.1275	7.00	-4.61	0.000	1.5	116107.000	1.5
86.1286	26.02	-4.44	20688.400	1.0	136793.820	2.0
86.1319	26.02	-4.90	83161.480	4.0	199262.440	3.0
86.1360	3.01	-1.14	476046.000	0.0	592141.477	0.0
86.1433	26.02	-3.78	50412.300	2.0	166498.000	3.0
86.1490	27.02	-3.09	15201.900	2.5	131279.900	3.5
86.1512	28.01	-5.16	10663.890	1.5	126738.820	1.5
86.1516	26.02	-4.91	83138.230	5.0	199212.720	4.0
86.1524	17.01	-4.42	11653.500	2.0	127726.900	1.0
86.1581	26.02	-1.96	21462.200	4.0	137527.920	4.0
86.1586	15.01	-1.94	8882.600	2.0	124947.600	2.0
86.1606	26.02	-4.97	83237.860	3.0	199300.150	2.0
86.1608	26.02	-4.33	24940.900	4.0	141002.990	4.0
86.1671	23.02	-2.08	43942.490	1.5	159996.000	2.5
86.1688	26.02	-4.50	83161.480	4.0	199212.720	4.0
86.1710	25.02	-3.14	32307.300	3.5	148355.600	3.5
86.1750	30.02	-2.98	145243.900	2.0	261286.800	1.0
86.1752	26.02	-2.75	932.400	1.0	116975.050	2.0
86.1777	26.02	-1.95	436.200	3.0	116475.440	3.0
86.1803	24.02	-5.96	355.800	3.0	116391.600	2.0
86.1813	23.02	-3.13	44646.960	4.5	160681.480	3.5
86.1815	23.02	-2.96	44110.040	2.5	160144.260	1.5
86.1818	23.02	-2.94	44345.820	3.5	160379.640	2.5
86.1822	26.02	-1.81	30857.800	3.0	146891.040	3.0
86.1837	26.02	-2.22	436.200	3.0	116467.410	4.0
86.1886	26.02	-4.59	83237.860	3.0	199262.440	3.0
86.1927	29.01	-1.35	21928.600	3.0	137938.900	4.0
86.1992	23.02	-1.92	44345.820	3.5	160351.500	3.5
86.2031	26.02	-1.90	932.400	1.0	116937.570	1.0
86.2034	26.02	-2.55	30886.400	4.0	146891.040	3.0
86.2058	26.02	-4.13	83138.230	5.0	199139.760	5.0
86.2136	7.00	-6.08	0.000	1.5	115991.000	2.5
86.2143	7.00	-5.66	0.000	1.5	115990.000	.5
86.2143	7.00	-4.97	0.000	1.5	115990.000	1.5
86.2143	7.00	-5.08	0.000	1.5	115990.000	2.5
86.2172	13.03	-1.01	690244.900	0.0	806231.000	1.0
86.2194	26.02	-1.44	436.200	3.0	116419.390	2.0
86.2198	28.02	-4.32	97996.300	3.0	213979.000	3.0
86.2230	26.02	-4.96	83161.480	4.0	199139.760	5.0
86.2247	23.02	-7.04	44345.820	3.5	160321.890	2.5
86.2256	27.02	-2.59	24236.800	1.5	140211.600	2.5
86.2256	26.02	-4.97	83237.860	3.0	199212.720	4.0
86.2270	7.00	-6.00	0.000	1.5	115973.000	1.5
86.2278	25.02	-3.70	32383.700	2.5	148355.600	3.5
86.2323	26.02	-1.78	932.400	1.0	116898.220	2.0
86.2329	26.02	-4.90	113605.370	3.0	229570.360	2.0
86.2342	27.02	-2.12	24236.800	1.5	140200.100	1.5
86.2360	26.02	-2.38	21462.200	4.0	137423.000	3.0
86.2388	24.02	-4.07	575.000	4.0	116532.100	3.0
86.2404	30.02	-1.31	145966.600	3.0	261921.600	2.0
86.2470	26.02	-2.23	50276.100	4.0	166222.200	4.0
86.2476	27.02	-2.71	17766.200	3.5	133711.400	2.5
86.2492	30.02	-4.15	145966.600	3.0	261909.700	4.0
86.2506	26.02	-4.84	83358.880	2.0	199300.150	2.0
86.2558	27.02	-2.43	20194.900	1.5	136129.100	2.5
86.2592	23.02	-4.47	44646.960	4.5	160576.620	3.5
86.2612	26.02	-1.84	50295.200	3.0	166222.200	4.0
86.2619	28.02	-2.87	14031.600	2.0	129957.600	1.0
86.2647	28.02	-3.21	14031.600	2.0	129953.900	3.0
86.2726	27.02	-2.17	23058.800	2.5	138970.500	1.5
86.2736	26.02	-1.96	1027.300	0.0	116937.570	1.0
86.2786	26.02	-4.97	83358.880	2.0	199262.440	3.0
86.2798	7.00	-4.98	0.000	1.5	115902.000	2.5
86.2804	26.02	-4.78	90423.680	2.0	206324.890	2.0
86.2870	16.01	-1.05	0.000	1.5	115892.300	.5
86.2885	28.02	-1.34	1360.700	3.0	117251.000	3.0
86.2895	7.00	-5.24	0.000	1.5	115889.000	.5
86.2895	7.00	-9.31	0.000	1.5	115889.000	1.5
86.2910	7.00	-6.14	0.000	1.5	115887.000	.5
86.2910	7.00	-5.31	0.000	1.5	115887.000	1.5
86.2910	7.00	-5.28	0.000	1.5	115887.000	2.5
86.2917	23.02	-1.82	44110.040	2.5	159996.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
86.2929	26.02	-3.85	20300.800	5.0	136185.170	5.0
86.2953	28.02	-4.57	14031.600	2.0	129912.800	2.0
86.3005	26.02	-3.14	113635.340	4.0	229509.560	3.0
86.3005	26.02	-1.37	19404.800	2.0	135279.040	2.0
86.3020	26.02	-4.18	90423.680	2.0	206295.810	1.0
86.3033	16.01	.22	0.000	1.5	115870.400	1.5
86.3106	26.02	-2.81	25142.400	3.0	141002.990	4.0
86.3148	7.00	-4.11	0.000	1.5	115855.000	.5
86.3148	7.00	-3.41	0.000	1.5	115855.000	1.5
86.3148	7.00	-3.45	0.000	1.5	115855.000	2.5
86.3214	28.02	-3.98	62606.300	3.0	178452.400	2.0
86.3214	28.02	-3.46	62606.300	3.0	178452.400	3.0
86.3217	28.02	-4.40	2269.600	2.0	118115.300	2.0
86.3220	23.02	-.93	43942.490	1.5	159787.800	1.5
86.3225	26.02	-3.12	21699.900	3.0	137544.600	2.0
86.3225	26.02	-4.70	90483.590	3.0	206328.220	3.0
86.3229	26.02	-1.21	20688.400	1.0	136532.450	2.0
86.3245	7.00	-3.90	0.000	1.5	115842.000	.5
86.3245	7.00	-4.40	0.000	1.5	115842.000	1.5
86.3256	28.02	-3.03	16977.800	1.0	132818.300	2.0
86.3307	26.02	-.36	35803.700	2.0	151637.300	1.0
86.3312	26.02	-3.14	42896.900	3.0	158729.890	3.0
86.3349	26.02	-1.97	21699.900	3.0	137527.920	4.0
86.3431	16.01	.15	0.000	1.5	115817.000	2.5
86.3466	26.02	-1.65	19404.800	2.0	135217.170	1.0
86.3659	26.02	-3.34	113635.340	4.0	229421.730	4.0
86.3669	28.01	-7.49	0.000	2.5	115785.060	1.5
86.3733	26.02	-1.27	20688.400	1.0	136464.900	1.0
86.3743	20.02	-3.75	225826.220	2.0	341601.460	2.0
86.3913	26.02	-1.60	24940.900	4.0	140693.360	3.0
86.3933	26.02	-4.23	90483.590	3.0	206233.310	2.0
86.3949	26.02	-1.81	21462.200	4.0	137209.730	4.0
86.3970	26.02	-4.76	113677.010	5.0	229421.730	4.0
86.3979	28.02	-4.38	23108.700	4.0	138852.200	3.0
86.3991	23.02	-.54	43942.490	1.5	159684.400	.5
86.4031	26.02	-.57	738.900	2.0	116475.440	3.0
86.4036	20.02	-1.66	228413.950	3.0	344149.810	2.0
86.4060	28.01	-2.85	23108.280	2.5	138841.000	3.5
86.4132	26.02	-2.32	21699.900	3.0	137423.000	3.0
86.4151	29.01	-1.80	21928.600	3.0	137649.100	2.0
86.4168	26.02	-3.84	20481.900	4.0	136200.130	3.0
86.4171	12.02	-2.06	475502.900	1.0	591220.700	1.0
86.4185	27.02	-4.64	23058.800	2.5	138774.700	2.5
86.4215	29.01	-.85	23998.220	1.0	139710.200	2.0
86.4251	27.02	-3.22	15201.900	2.5	130909.000	1.5
86.4270	23.02	.02	44646.960	4.5	160351.500	3.5
86.4275	26.02	-2.55	21857.200	2.0	137561.100	1.0
86.4280	27.02	-3.60	23434.300	4.5	139137.500	5.0
86.4280	26.02	-4.70	20481.900	4.0	136185.170	5.0
86.4364	26.02	-.95	19404.800	2.0	135096.840	3.0
86.4380	26.02	-1.78	20300.800	5.0	135990.620	4.0
86.4391	26.02	-2.42	20051.100	6.0	135739.470	6.0
86.4398	26.02	-3.05	21857.200	2.0	137544.600	2.0
86.4422	26.02	-.89	20051.100	6.0	135735.310	5.0
86.4450	26.02	-1.42	738.900	2.0	116419.390	2.0
86.4468	20.02	-2.38	227432.110	1.0	343110.240	0.0
86.4470	23.02	-.33	44110.040	2.5	159787.800	1.5
86.4560	26.02	-3.82	42896.900	3.0	158562.700	4.0
86.4578	26.02	-1.54	50276.100	4.0	165939.470	5.0
86.4630	17.01	-2.59	0.000	2.0	115656.400	1.0
86.4677	23.02	-.15	44345.820	3.5	159996.000	2.5
86.4678	25.02	-2.79	29167.700	2.5	144817.680	3.5
86.4706	27.02	-3.50	16977.600	4.5	132623.800	3.5
86.4744	26.02	-1.94	738.900	2.0	116380.070	1.0
86.4847	25.03	-3.92	53212.300	4.0	168839.700	4.0
86.4887	7.00	-4.13	0.000	1.5	115622.000	2.5
86.4917	7.00	-4.17	0.000	1.5	115618.000	.5
86.4917	7.00	-3.99	0.000	1.5	115618.000	1.5
86.4917	7.00	-5.33	0.000	1.5	115618.000	2.5
86.4954	30.02	-3.26	147498.600	1.0	263111.700	0.0
86.4982	27.02	-2.19	16977.600	4.5	132587.000	4.5
86.4988	26.02	-1.65	25142.400	3.0	140750.980	2.0
86.5074	7.00	-6.48	0.000	1.5	115597.000	1.5
86.5110	28.01	-4.51	0.000	2.5	115592.250	1.5
86.5266	26.02	-1.40	19404.800	2.0	134976.220	3.0
86.5307	28.01	-4.23	0.000	2.5	115565.980	2.5
86.5308	26.02	-3.51	21857.200	2.0	137423.000	3.0
86.5387	29.01	-.86	22846.970	2.0	138402.200	3.0
86.5404	25.03	-5.81	53286.700	3.0	168839.700	4.0
86.5419	26.02	-3.95	25142.400	3.0	140693.360	3.0
86.5422	15.01	-.99	8882.600	2.0	124433.100	1.0
86.5445	26.02	-2.19	20688.400	1.0	136235.840	1.0
86.5461	15.04	.16	88651.700	.5	204197.100	1.5
86.5497	30.02	-2.09	147571.200	1.0	263111.700	0.0
86.5539	7.00	-4.18	0.000	1.5	115535.000	2.5
86.5553	26.02	-3.05	19404.800	2.0	134937.840	2.0
86.5569	26.02	-2.08	20051.100	6.0	135562.080	6.0
86.5576	7.00	-5.81	0.000	1.5	115530.000	.5
86.5576	7.00	-4.41	0.000	1.5	115530.000	1.5
86.5587	27.02	-1.31	16977.600	4.5	132506.200	5.5
86.5600	26.02	-2.05	20481.900	4.0	136008.740	3.0
86.5621	7.00	-5.17	0.000	1.5	115524.000	.5
86.5621	7.00	-5.28	0.000	1.5	115524.000	1.5
86.5621	7.00	-4.33	0.000	1.5	115524.000	2.5
86.5629	20.02	-2.22	225826.220	2.0	341349.190	1.0
86.5643	9.02	-1.32	348702.800	.5	464223.930	1.5
86.5648	26.02	-2.16	42896.900	3.0	158417.310	2.0
86.5709	26.02	-2.84	24940.900	4.0	140453.100	3.0
86.5727	26.02	-2.43	21699.900	3.0	137209.730	4.0
86.5736	26.02	-2.52	20481.900	4.0	135990.620	4.0
86.5751	27.02	-2.38	24236.800	1.5	139743.400	2.5
86.5766	25.02	-2.76	29167.700	2.5	144672.380	2.5
86.5769	9.02	-1.13	348817.600	1.5	464321.840	2.5
86.5844	27.02	-2.81	24236.800	1.5	139731.000	.5
86.5898	26.02	-1.11	932.400	1.0	116419.390	2.0
86.5901	27.02	-1.33	23434.300	4.5	138921.000	4.5
86.5913	28.01	-7.06	14995.570	2.5	130480.550	3.5
86.5916	9.02	-.99	349007.250	2.5	464441.890	3.5
86.5928	7.00	-3.92	0.000	1.5	115483.000	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
86.5928	7.00	-3.23	0.000	1.5	115483.000	1.5	86.9656	7.00	-3.98	0.000	1.5	114988.000	2.5
86.5928	7.00	-3.09	0.000	1.5	115483.000	2.5	86.9702	27.02	-1.98	15201.900	2.5	130183.800	3.5
86.5941	12.02	-1.61	475502.900	1.0	590984.200	0.0	86.9706	28.02	-1.12	2269.600	2.0	117251.000	3.0
86.5945	27.02	-2.29	15428.200	1.5	130909.000	1.5	86.9715	29.01	-3.50	26264.400	2.0	141244.800	1.0
86.5951	7.00	-3.66	0.000	1.5	115480.000	0.5	86.9718	28.02	-3.50	63472.600	2.0	178452.400	2.0
86.5951	7.00	-4.05	0.000	1.5	115480.000	1.5	86.9718	28.02	-4.29	63472.600	2.0	178452.400	2.0
86.5957	13.03	-1.45	687456.800	1.0	802936.000	1.0	86.9719	27.02	-2.88	15428.200	1.5	130407.800	2.5
86.6030	29.01	-4.15	26264.400	2.0	141733.900	2.0	86.9730	26.02	-4.79	83358.880	2.0	198337.060	3.0
86.6084	9.02	-1.90	349266.200	3.5	464720.420	4.5	86.9734	24.02	-3.02	575.000	4.0	115552.700	3.0
86.6165	25.02	-2.49	29167.700	2.5	144619.190	1.5	86.9754	18.00	-1.64	0.000	0.0	114975.070	1.0
86.6193	26.02	-2.14	932.400	1.0	116380.070	1.0	86.9833	15.04	-2.23	345398.400	1.5	460363.000	1.5
86.6228	26.02	-3.69	50276.100	4.0	165719.200	4.0	86.9833	15.04	-1.53	345398.400	1.5	460363.000	1.5
86.6261	26.02	-3.11	20300.800	5.0	135739.470	6.0	86.9866	17.01	-3.77	696.100	1.0	115656.400	1.0
86.6292	26.02	-2.43	20300.800	5.0	135735.310	5.0	86.9870	15.04	-1.28	345403.300	2.5	460363.000	1.5
86.6308	26.02	-3.30	932.400	1.0	116364.760	0.0	86.9928	28.02	-2.06	23108.700	4.0	138060.700	5.0
86.6319	25.02	-4.42	29241.400	1.5	144672.380	2.5	86.9939	26.02	-1.16	24558.800	5.0	139509.440	5.0
86.6329	26.02	-3.21	20688.400	1.0	136117.940	2.0	86.9943	7.00	-3.67	0.000	1.5	114950.000	1.5
86.6371	26.02	-1.77	50295.200	3.0	165719.200	4.0	86.9943	7.00	-3.87	0.000	1.5	114950.000	1.5
86.6462	25.02	-2.48	29207.300	0.5	144619.190	1.5	86.9951	30.02	-1.64	147571.200	1.0	262520.200	2.0
86.6504	9.02	-1.81	348817.600	1.5	464223.930	1.5	86.9954	26.02	-4.67	0.000	4.0	114948.550	3.0
86.6623	27.02	-2.38	24238.800	1.5	139627.200	1.5	86.9984	9.02	-3.99	351330.800	1.5	466275.500	2.5
86.6648	28.01	-4.40	1506.940	1.5	116893.980	2.5	87.0004	7.00	-3.01	0.000	1.5	114942.000	2.5
86.6711	28.02	-3.72	23108.700	4.0	138487.400	3.0	87.0011	27.02	-1.12	22720.300	5.5	137661.400	4.5
86.6718	25.02	-2.52	29241.400	1.5	144619.190	1.5	87.0020	26.02	-1.83	21857.200	2.0	136797.050	3.0
86.6767	27.02	-2.97	15428.200	1.5	130799.500	0.5	87.0021	29.01	-2.53	26264.400	2.0	141204.100	3.0
86.6770	24.02	-4.31	181.900	2.0	115552.700	3.0	87.0027	26.02	-3.07	20300.800	5.0	135239.740	4.0
86.6800	18.00	-3.36	0.000	0.0	115366.900	1.0	87.0045	26.02	-2.67	21857.200	2.0	136793.820	2.0
86.6906	26.02	-1.88	1027.300	0.0	116380.070	1.0	87.0150	28.02	-4.02	23108.700	4.0	138031.400	4.0
86.7025	28.02	-1.53	2269.600	2.0	117606.500	3.0	87.0152	9.02	-4.86	351330.800	1.5	466253.240	1.5
86.7030	28.01	-3.03	14995.570	2.5	130331.780	1.5	87.0152	20.02	-2.37	225826.220	2.0	340748.720	2.0
86.7041	26.02	-2.16	21462.200	4.0	136797.050	3.0	87.0224	26.02	-1.06	21699.900	3.0	136612.780	4.0
86.7138	28.01	-4.34	9330.040	3.5	124652.000	4.5	87.0250	27.02	-3.15	16977.600	4.5	131887.100	4.5
86.7173	28.01	-4.51	1506.940	1.5	116824.150	2.5	87.0287	26.02	-1.73	24558.800	5.0	139463.360	5.0
86.7193	9.02	-1.78	349007.250	2.5	464321.840	2.5	87.0305	26.02	-5.91	30716.200	2.0	145618.390	2.0
86.7199	28.02	-1.40	1360.700	3.0	116674.500	4.0	87.0332	12.01	-3.50	0.000	0.5	114898.720	1.5
86.7222	26.02	-3.15	25142.400	3.0	140453.100	3.0	87.0346	12.01	-3.81	0.000	0.5	114896.790	1.5
86.7306	27.02	-2.41	16977.600	4.5	132277.100	3.5	87.0378	26.02	-1.95	30725.800	1.0	145618.390	2.0
86.7379	26.02	-2.21	0.000	4.0	115289.910	5.0	87.0398	7.00	-2.94	0.000	1.5	114890.000	1.5
86.7398	26.02	-3.16	24558.800	5.0	139846.180	6.0	87.0415	14.02	-3.63	142943.740	3.0	257831.400	2.0
86.7444	26.02	-3.27	20300.800	5.0	135582.080	6.0	87.0415	14.02	-2.09	142943.740	3.0	257831.400	3.0
86.7470	29.01	-2.46	26264.400	2.0	141542.100	2.0	87.0415	14.02	-1.02	142943.740	3.0	257831.400	4.0
86.7510	28.02	-1.00	0.000	4.0	115272.500	5.0	87.0426	26.02	-1.92	24940.900	4.0	139827.170	4.0
86.7541	26.02	-2.24	24558.800	5.0	139827.170	4.0	87.0431	14.02	-2.09	142945.840	2.0	257831.400	2.0
86.7544	20.02	-1.67	226333.560	3.0	341601.460	2.0	87.0431	14.02	-1.19	142945.840	2.0	257831.400	3.0
86.7564	26.02	-1.74	20051.100	6.0	135316.420	5.0	87.0450	14.02	-1.36	142948.250	1.0	257831.400	2.0
86.7631	26.02	-0.89	21208.500	0.0	136464.900	1.0	87.0476	26.02	-9.03	30088.840	3.0	144968.500	4.0
86.7652	26.02	-1.10	20300.800	5.0	135554.410	4.0	87.0544	29.01	-1.41	21928.600	3.0	136799.300	2.0
86.7653	26.02	-2.73	20481.900	4.0	135735.310	5.0	87.0554	28.01	-3.95	0.000	2.5	114869.350	1.5
86.7729	29.01	-1.60	23998.220	1.0	139241.600	1.0	87.0620	26.02	-4.46	19404.800	2.0	134265.420	2.0
86.7815	28.01	-3.87	14995.570	2.5	130227.520	2.5	87.0643	27.02	-2.89	17766.200	3.5	132623.800	3.5
86.7827	28.01	-8.63	14995.570	2.5	130225.870	3.5	87.0692	26.02	-1.36	35803.700	2.0	150654.900	3.0
86.7862	9.02	-2.04	349266.200	3.5	464491.890	3.5	87.0818	26.02	-2.53	20481.900	4.0	135316.420	5.0
86.7877	26.02	-3.44	20481.900	4.0	135705.570	3.0	87.0833	26.02	-3.25	21699.900	3.0	136532.450	2.0
86.7912	29.01	-1.00	23998.220	1.0	139217.300	2.0	87.0842	28.02	-1.07	1360.700	3.0	116192.100	4.0
86.7927	11.02	-3.89	414281.000	2.5	529498.000	1.5	87.0883	24.02	-3.51	355.800	3.0	115181.800	2.0
86.7930	9.02	-3.11	349007.250	2.5	464223.930	1.5	87.0922	27.02	-1.80	17766.200	3.5	132587.000	4.5
86.7947	24.02	-7.57	355.800	3.0	115570.200	4.0	87.1012	7.00	-3.49	0.000	1.5	114809.000	0.5
86.7955	28.01	-8.95	14995.570	2.5	130208.890	3.5	87.1049	16.01	-3.38	0.000	1.5	114804.110	2.5
86.7981	28.01	-4.34	0.000	2.5	115209.850	3.5	87.1064	29.01	-1.68	22846.970	2.0	137649.100	2.0
86.8011	27.02	-3.17	15201.900	2.5	130407.800	2.5	87.1098	18.02	-0.30	0.000	2.0	114797.600	1.0
86.8043	28.01	-9.77	14995.570	2.5	130197.230	1.5	87.1131	19.04	-4.28	24012.700	1.5	138806.000	0.5
86.8079	24.02	-4.50	355.800	3.0	115552.700	3.0	87.1132	12.03	-3.35	597071.900	1.5	711865.000	1.5
86.8089	26.02	-4.24	83138.230	5.0	198333.760	6.0	87.1176	26.02	-3.33	42896.900	3.0	157684.300	2.0
86.8140	28.01	-8.70	14995.570	2.5	130184.390	2.5	87.1183	28.01	-4.61	14995.570	2.5	129782.070	3.5
86.8176	11.02	-2.76	414281.000	2.5	529465.000	2.5	87.1342	29.01	-5.89	21928.600	3.0	136694.100	4.0
86.8218	28.01	-8.95	14995.570	2.5	130174.030	1.5	87.1369	15.04	0.42	89446.300	1.5	204208.300	2.5
86.8243	26.02	-4.38	83161.480	4.0	198336.580	5.0	87.1379	26.02	-2.48	30857.800	3.0	145618.390	2.0
86.8428	26.02	-4.84	21462.200	4.0	136612.780	4.0	87.1400	26.02	-3.68	20481.900	4.0	135239.740	4.0
86.8440	29.01	-3.77	21928.600	3.0	137077.600	3.0	87.1411	29.01	-8.74	0.000	0.0	114756.400	1.0
86.8473	26.02	-1.19	19404.800	2.0	134549.380	1.0	87.1414	9.02	-4.50	351519.420	2.5	466275.500	2.5
86.8476	26.02	-3.45	19404.800	2.0	134549.000	3.0	87.1430	20.02	-3.50	225826.220	2.0	340580.150	3.0
86.8644	24.02	-4.31	59.900	1.0	115181.800	2.0	87.1432	27.02	-1.43	23058.800	2.5	137812.400	3.5
86.8659	28.01	-3.01	0.000	2.5	115120.000	2.5	87.1454	15.04	-5.54	89446.300	1.5	204197.100	1.5
86.8727	26.02	-2.65	0.000	4.0	115110.920	4.0	87.1535	8.02	-1.17	300440.850	2.0	45181.000	3.0
86.8749	28.01	-2.30	0.000	2.5	115108.090	2.5	87.1539	26.02	-5.93	24940.900	4.0	139680.470	3.0
86.8787	7.00	-3.83	0.000	1.5	115103.000	2.5	87.1551	26.02	-1.44	21462.200	4.0	136200.130	3.0
86.8800	13.03	-5.56	687834.700	2.0	802936.000	1.0	87.1584	27.02	-3.28	24236.800	1.5	138970.500	1.5
86.8804	26.02	-4.40	83237.860	3.0	198338.620	4.0	87.1665	26.02	-4.16	21462.200	4.0	136185.170	5.0
86.8809	7.00	-4.45	0.000	1.5	115100.100	2.5	87.1666	27.02	-2.66	17766.200	3.5	132489.00	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
87.3073	27.02	-4.16	24236.800	1.5	138774.700	2.5	87.6408	8.00	-4.34	15867.862	2.0	129970.000	2.0
87.3103	24.02	-4.07	181.900	2.0	114715.900	1.0	87.6463	25.02	-3.56	0.000	2.5	114099.970	1.5
87.3133	12.03	-3.94	597589.900	.5	712120.000	1.5	87.6484	26.02	-.84	21462.200	4.0	135554.410	4.0
87.3143	26.02	-1.28	20688.400	1.0	135217.170	1.0	87.6516	25.03	-4.77	53212.300	4.0	167300.300	3.0
87.3146	26.02	-2.07	21462.200	4.0	135990.620	4.0	87.6537	28.01	-3.75	1506.940	1.5	115592.250	1.5
87.3175	30.02	-3.61	147921.500	2.0	262446.100	3.0	87.6552	9.02	-2.32	351330.800	1.5	465414.140	2.5
87.3191	26.02	-3.76	24940.900	4.0	139463.360	5.0	87.6562	26.02	-1.47	30886.400	4.0	144968.500	4.0
87.3260	29.01	-1.71	21928.600	3.0	136442.050	3.0	87.6604	27.02	-.99	16977.600	4.5	131054.200	3.5
87.3268	26.02	-3.61	436.200	3.0	114948.550	3.0	87.6610	28.02	-4.49	98238.200	4.0	212314.000	3.0
87.3279	27.02	-2.51	17766.200	3.5	132277.100	3.5	87.6646	7.00	-2.77	0.000	1.5	114071.153	1.5
87.3324	27.02	-2.54	15201.900	2.5	129706.900	3.5	87.6677	26.02	-1.09	20481.900	4.0	134549.000	3.0
87.3361	26.02	-3.20	21699.900	3.0	136200.130	3.0	87.6735	26.02	-1.68	20300.800	5.0	134360.400	4.0
87.3406	26.02	-2.50	20481.900	4.0	134976.220	3.0	87.6739	28.01	-3.80	1506.940	1.5	115565.980	2.5
87.3461	26.02	-.49	30356.200	6.0	144843.240	5.0	87.6783	24.02	-1.95	17395.500	5.0	131448.800	5.0
87.3494	26.02	-2.90	25142.400	3.0	139625.170	4.0	87.6793	28.01	-4.69	0.000	2.5	114052.040	3.5
87.3578	12.02	-1.35	474655.000	2.0	589126.800	1.0	87.6829	28.01	-2.14	8393.900	4.5	122441.220	4.5
87.3710	28.01	-5.10	23108.280	2.5	137562.740	3.5	87.6869	25.02	-1.64	29167.700	2.5	143209.600	2.5
87.3837	30.02	-1.63	147498.600	1.0	261936.400	1.0	87.6888	25.03	-5.63	53260.700	2.0	167300.300	3.0
87.3914	28.01	-7.35	23108.280	2.5	137535.960	3.5	87.6946	12.03	-3.97	597589.900	.5	711622.000	.5
87.3950	30.02	-3.38	147498.600	1.0	261921.600	2.0	87.6968	19.04	-3.93	24012.700	1.5	138042.000	1.5
87.3980	28.01	-2.10	8393.900	4.5	122812.970	3.5	87.6985	17.04	-4.33	158892.000	1.5	272919.000	2.5
87.3985	28.01	-7.28	23108.280	2.5	137526.730	2.5	87.6988	7.00	-3.15	0.000	1.5	114026.654	.5
87.3988	26.02	-1.46	21699.900	3.0	136117.940	2.0	87.7009	29.01	-1.47	21928.600	3.0	135954.550	2.0
87.4010	28.01	-8.25	23108.280	2.5	137523.510	3.5	87.7027	9.02	-2.07	351519.420	2.5	465541.000	1.5
87.4010	20.02	-2.63	226333.560	3.0	340748.720	2.0	87.7078	30.02	-3.44	147921.500	2.0	261936.400	1.0
87.4042	28.01	-8.21	23108.280	2.5	137519.230	2.5	87.7088	25.03	-3.75	53266.700	3.0	167300.300	3.0
87.4124	26.02	-1.08	20688.400	1.0	135088.600	0.0	87.7126	26.02	-3.32	21208.500	0.0	135217.170	1.0
87.4136	26.02	-4.58	115110.920	4.0	229509.560	3.0	87.7142	25.02	-.99	32384.700	1.5	146391.300	.5
87.4176	27.02	-1.37	16977.600	4.5	131371.100	5.5	87.7149	26.02	-1.11	21699.900	3.0	135705.570	3.0
87.4289	26.02	-1.44	21857.200	2.0	136235.840	1.0	87.7192	30.02	-2.40	147921.500	2.0	261921.600	2.0
87.4290	17.01	-.31	11653.500	2.0	126032.000	2.0	87.7200	24.02	-4.64	355.800	3.0	114354.900	4.0
87.4293	27.02	-.32	23434.300	4.5	137812.400	3.5	87.7215	26.02	-6.44	30088.840	3.0	144085.970	4.0
87.4388	29.01	-4.57	22846.970	2.0	137212.700	1.0	87.7235	24.02	-2.05	17272.800	4.0	131267.300	4.0
87.4392	30.02	-1.50	147571.200	1.0	261936.400	1.0	87.7291	25.02	-1.17	32404.000	.5	146391.300	.5
87.4396	8.02	-4.80	300310.310	1.0	414675.000	2.0	87.7342	25.02	-2.56	29167.700	2.5	143148.400	1.5
87.4461	12.02	-4.27	467378.500	1.0	581734.700	1.0	87.7436	25.02	-1.54	29241.400	1.5	143209.600	2.5
87.4505	30.02	-3.02	147571.200	1.0	261921.600	2.0	87.7493	15.03	.33	189389.000	2.0	303350.000	3.0
87.4547	28.01	-2.90	13550.390	3.5	127895.330	3.5	87.7493	15.03	-.41	189389.000	3.0	303350.000	3.0
87.4562	26.02	-2.13	21857.200	2.0	136200.130	3.0	87.7496	20.02	-3.06	227388.560	2.0	341349.190	1.0
87.4619	28.01	-3.19	13550.390	3.5	127885.860	4.5	87.7525	26.02	-.65	30886.400	4.0	144843.240	5.0
87.4701	11.02	-2.93	415173.200	1.5	529498.000	1.5	87.7559	25.02	-1.67	26824.400	5.5	140776.880	5.5
87.4719	26.02	-1.41	30716.200	2.0	145038.610	3.0	87.7560	29.01	-.58	22846.970	2.0	136799.300	2.0
87.4744	27.02	-3.10	15428.200	1.5	129747.300	2.5	87.7646	25.02	-2.10	29207.300	.5	143148.400	1.5
87.4781	30.02	-2.63	147921.500	2.0	262235.800	3.0	87.7737	25.02	-4.32	29167.700	2.5	143097.000	3.5
87.4823	26.02	-1.94	21699.900	3.0	136008.740	3.0	87.7764	25.02	-2.09	26851.100	4.5	140776.880	5.5
87.4855	9.02	-4.51	351236.350	.5	465541.000	.5	87.7809	24.02	-.70	17528.800	6.0	131448.800	5.0
87.4855	9.02	-3.86	351236.350	.5	465541.000	1.5	87.7811	25.02	-2.98	29207.300	.5	143127.000	.5
87.4873	27.02	-1.83	16977.600	4.5	131279.900	3.5	87.7831	20.02	-2.51	227432.110	1.0	341349.190	1.0
87.4908	15.04	-3.26	352595.300	2.5	466893.000	2.5	87.7843	29.01	-.70	23998.220	1.0	137913.800	1.0
87.4908	15.04	-1.96	352595.300	3.5	466893.000	2.5	87.7873	28.02	-3.72	23108.700	4.0	137020.400	5.0
87.4908	15.04	-2.12	352595.300	2.5	466893.000	1.5	87.7909	25.02	-3.80	29241.400	1.5	143148.400	1.5
87.4953	11.02	-3.80	415173.200	1.5	529465.000	2.5	87.7915	29.01	-2.31	21928.600	3.0	135834.900	4.0
87.4962	26.02	-2.19	21699.900	3.0	135990.620	4.0	87.8004	9.02	-1.50	351519.420	2.5	465414.140	2.5
87.4963	7.00	-3.28	0.000	1.5	114290.500	2.5	87.8074	25.02	-3.34	29241.400	1.5	143127.000	.5
87.4983	25.02	-2.85	0.000	2.5	114287.910	2.5	87.8077	28.02	-1.15	16977.800	1.0	130863.000	1.0
87.5021	13.03	-2.13	688653.000	1.0	802936.000	1.0	87.8080	27.02	-1.07	20194.900	1.5	134079.800	1.5
87.5058	28.01	-4.90	1506.940	1.5	115785.060	1.5	87.8107	28.02	-5.00	62606.300	3.0	176487.700	2.0
87.5081	12.03	-4.17	597589.900	.5	711865.000	1.5	87.8129	26.02	-1.71	20481.900	4.0	134360.400	4.0
87.5090	7.00	-3.81	0.000	1.5	114274.000	2.5	87.8181	24.02	-.83	17395.500	5.0	131267.300	4.0
87.5097	26.02	-1.06	21462.200	4.0	135735.310	5.0	87.8183	28.01	-8.17	14995.570	2.5	128867.000	3.5
87.5120	15.03	.65	189389.000	3.0	303659.000	4.0	87.8201	8.00	-.78	15867.862	2.0	129737.052	3.0
87.5191	26.02	-2.83	21857.200	2.0	136117.940	2.0	87.8208	26.02	-4.59	116380.070	1.0	230248.260	1.0
87.5205	7.00	-5.76	0.000	1.5	114259.000	1.5	87.8233	17.04	-4.63	158892.000	1.5	272757.000	1.5
87.5278	26.02	-4.12	20688.400	1.0	134937.840	2.0	87.8264	26.02	-1.09	20688.400	1.0	134549.380	1.0
87.5300	20.02	-2.30	226333.560	3.0	340580.150	3.0	87.8285	28.01	-8.11	14995.570	2.5	128853.870	2.5
87.5324	26.02	-7.48	30088.840	3.0	144332.210	4.0	87.8302	28.02	-2.75	23108.700	4.0	136964.800	3.0
87.5324	26.02	-2.73	21462.200	4.0	135705.570	3.0	87.8314	26.02	-1.85	21699.900	3.0	135554.410	4.0
87.5395	8.02	-4.37	300440.850	2.0	414675.000	2.0	87.8315	26.02	-1.49	30716.200	2.0	144570.530	3.0
87.5410	7.00	-2.97	0.000	1.5	114232.200	1.5	87.8316	26.02	-1.68	21462.200	4.0	135316.420	5.0
87.5421	16.01	.26	0.000	1.5	114230.750	2.5	87.8361	26.02	-2.10	21857.200	2.0	135705.570	3.0
87.5422	29.01	-1.48	22846.970	2.0	137077.600	3.0	87.8385	24.02	-.92	17272.800	4.0	131116.100	3.0
87.5422	26.02	.26	30356.200	6.0	144586.830	5.0	87.8443	26.02	-4.25	116419.390	2.0	230257.150	2.0
87.5449	27.02	-1.78	23434.300	4.5	137661.400	4.5	87.8529	28.01	-8.47	14995.570	2.5	128822.230	1.5
87.5534	18.02	-.40	1112.400	1.0	115328.400	0.0	87.8537	8.00	-4.09	15867.862	2.0	129693.488	3.0
87.5558	20.02	-2.33	227388.560	2.0	341601.460	2.0	87.8547	27.02	-.45	16977.600	4.5	130801.900	4.5
87.5579	9.02	-2.18	351330.800	1.5	465541.000	.5	87.8616	27.02	-1.44	17766.200	3.5	131581.600	3.5
87.5579	9.02	-2.04	351330.800	1.5	465541.000	1.5	87.8696	29.01	-.42	21928.600	3.0	135733.600	3.0
87.5583	26.02	-3.29	738.900	2.0	114948.550	3.0	87.8699	28.01	-2.18	25036.380	2.5	138841.000	3.5
87.5588	25.02	-2.86	0.000	2.5	114209.010	3.5	87.8729	18.02	.17				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
87.9622	18.02	-5.53	1112.400	1.0	114797.600	1.0	88.3775	26.02	-2.11	116419.390	2.0	229570.360	2.0
87.9630	26.02	-7.71	30886.400	4.0	144570.530	3.0	88.3778	26.02	-2.69	116380.070	1.0	229530.670	1.0
87.9644	25.02	-6.66	32383.700	2.5	146066.070	1.5	88.3798	26.02	-4.35	436.200	3.0	113584.200	2.0
87.9652	25.02	-1.33	32384.700	1.5	146066.070	1.5	88.3854	28.02	-1.95	0.000	4.0	113140.800	5.0
87.9685	26.02	-2.18	0.000	4.0	113677.010	5.0	88.3942	28.01	-3.89	13550.390	3.5	126579.980	4.5
87.9689	25.02	-2.00	0.000	2.5	113676.530	2.5	88.3970	27.02	-1.33	15811.400	5.5	128937.400	5.5
87.9743	28.01	-2.37	13550.390	3.5	127219.970	3.5	88.3983	26.02	-4.73	117068.560	3.0	230192.860	3.0
87.9801	25.02	-2.00	32404.000	5.5	146066.070	1.5	88.4025	26.02	-2.64	21857.200	2.0	134976.220	3.0
87.9888	29.01	-1.38	23998.220	1.0	137649.100	2.0	88.4066	26.02	-2.74	24940.900	4.0	138054.590	5.0
87.9941	26.02	-2.92	30857.800	3.0	144501.740	2.0	88.4083	26.02	-2.82	35803.700	2.0	148915.300	1.0
87.9947	18.00	-1.53	0.000	0.0	113643.260	1.0	88.4085	26.02	-3.51	116419.390	2.0	229530.670	1.0
88.0008	26.02	-2.17	0.000	4.0	113635.340	4.0	88.4086	28.01	-2.98	9330.040	3.5	122441.220	4.5
88.0013	26.02	-4.48	21462.200	4.0	135096.840	3.0	88.4110	27.02	-3.93	15428.200	1.5	128536.300	5.5
88.0031	28.02	-1.53	17230.700	0.0	130863.000	1.0	88.4130	29.01	-2.32	22846.970	2.0	135952.550	2.0
88.0097	12.02	-1.73	475502.900	1.0	589126.800	1.0	88.4133	26.02	-1.95	116316.630	5.0	229421.730	4.0
88.0181	28.01	-3.76	1506.940	1.5	115120.000	2.5	88.4147	23.03	-7.78	42462.100	0.0	155565.500	1.0
88.0240	26.02	-4.27	0.000	4.0	113605.370	3.0	88.4199	27.02	-1.10	15428.200	1.5	128524.900	2.5
88.0258	27.02	-2.44	15201.900	2.5	128804.900	1.5	88.4213	26.02	-3.32	116475.440	3.0	229570.360	2.0
88.0273	28.01	-3.44	1506.940	1.5	115108.090	2.5	88.4226	25.02	-3.23	26851.100	4.5	139944.400	3.5
88.0320	29.01	-1.42	22846.970	2.0	136442.050	3.0	88.4250	26.02	-2.42	116419.390	2.0	229509.560	3.0
88.0443	26.02	-4.41	21699.900	3.0	135279.040	2.0	88.4260	26.02	-1.12	57221.040	2.0	170310.600	3.0
88.0460	26.02	-1.85	20688.400	1.0	134265.420	2.0	88.4277	26.02	-2.59	21462.200	4.0	134549.000	3.0
88.0713	26.02	-1.53	24558.800	5.0	138103.120	4.0	88.4278	25.02	-3.42	26857.800	2.5	139944.400	3.5
88.0748	26.02	-4.25	21699.900	3.0	135239.740	5.0	88.4294	25.02	-3.80	26859.900	3.5	139944.400	3.5
88.0844	26.02	-2.08	30356.200	6.0	143883.740	4.0	88.4325	26.02	-2.20	21857.200	2.0	134937.840	2.0
88.0929	27.02	-6.62	20194.900	1.5	133711.400	2.5	88.4343	25.02	-2.08	0.000	2.5	113078.340	1.5
88.0948	26.02	-5.55	21462.200	4.0	134976.220	3.0	88.4348	25.02	-2.34	26824.400	5.5	139902.060	5.5
88.0951	27.02	-7.72	17766.200	3.5	131279.900	3.5	88.4406	27.02	-2.52	23058.800	2.5	136129.100	2.5
88.0986	27.02	-2.07	15428.200	1.5	128937.400	5.5	88.4432	29.01	-1.92	26264.400	2.0	139331.300	3.0
88.1090	26.02	-1.14	24558.800	5.0	138054.590	5.0	88.4507	23.02	-3.57	49327.740	2.5	162385.110	3.5
88.1190	28.01	-6.92	9330.040	3.5	122812.970	3.5	88.4557	25.02	-4.27	26851.100	4.5	139902.060	5.5
88.1238	29.01	-1.55	26264.400	2.0	139741.100	3.0	88.4599	26.02	-4.41	25142.400	3.0	138187.930	3.0
88.1256	26.02	-2.23	30857.800	3.0	144332.210	4.0	88.4626	26.02	-2.37	116467.410	4.0	229509.560	3.0
88.1301	28.01	-4.18	8393.500	4.5	121862.570	3.5	88.4676	27.02	-2.40	17766.200	3.5	130801.900	4.5
88.1358	16.01	-4.11	0.000	1.5	113461.220	1.5	88.4689	26.02	-1.88	116475.440	3.0	229509.560	3.0
88.1396	25.02	-2.26	26824.400	5.5	140280.800	4.5	88.4694	25.02	-2.80	26824.400	5.5	139857.840	4.5
88.1478	29.01	-2.85	26264.400	2.0	139710.200	2.0	88.4697	12.01	-3.35	0.000	5.5	113033.090	1.5
88.1478	26.02	-6.66	30886.400	4.0	144332.210	4.0	88.4719	12.01	-3.65	0.000	5.5	113030.250	5.5
88.1497	25.02	-2.05	26851.100	4.5	140294.440	3.5	88.4844	28.01	-8.19	23108.280	2.5	136122.610	2.5
88.1521	28.01	-8.10	23108.280	2.5	136548.550	2.5	88.4877	28.02	-3.24	1360.700	3.0	114370.800	2.0
88.1532	28.01	-7.90	23108.280	2.5	136547.130	3.5	88.4892	23.02	-1.97	49327.740	2.5	162335.880	3.5
88.1549	25.02	-2.56	26857.800	2.5	140294.440	3.5	88.4903	25.02	-2.88	26851.100	4.5	139857.840	4.5
88.1566	25.02	-2.14	26859.900	3.5	140294.440	3.5	88.4957	24.02	-4.68	355.800	3.0	113355.700	2.0
88.1570	28.01	-8.08	23108.280	2.5	136542.280	3.5	88.4972	25.02	-5.36	26859.900	3.5	139857.840	4.5
88.1603	25.02	-7.82	26851.100	4.5	140280.800	4.5	88.4977	26.02	-2.07	30886.400	4.0	143883.740	5.0
88.1656	28.01	-8.83	23108.280	2.5	136531.260	1.5	88.4996	27.02	-1.89	15428.200	1.5	128423.100	1.5
88.1664	26.02	-1.77	21857.200	2.0	135279.040	2.0	88.5007	27.02	-1.42	15811.400	5.5	128804.900	1.5
88.1672	25.02	-6.27	26859.900	3.5	140280.800	4.5	88.5026	9.02	-3.08	351330.800	1.5	464321.840	2.5
88.1816	9.02	-4.59	351519.420	2.5	464921.740	3.5	88.5053	9.02	-3.83	351236.350	5.5	464223.930	1.5
88.1831	26.02	-2.32	30716.200	2.0	144116.640	3.0	88.5114	28.02	-2.53	16977.800	1.0	129957.600	1.0
88.1858	26.02	-1.82	21699.900	3.0	135096.840	3.0	88.5134	29.01	-2.73	26264.400	2.0	139241.600	1.0
88.2015	27.02	-1.39	15428.200	1.5	128804.900	1.5	88.5171	9.02	-2.79	351519.420	2.5	464491.890	3.5
88.2104	30.02	-2.44	147921.500	2.0	261286.800	1.0	88.5198	26.02	-4.25	24558.800	5.0	137527.920	4.0
88.2127	28.01	-2.92	1506.940	1.5	114869.350	1.5	88.5233	26.02	-1.59	30356.200	6.0	143320.850	6.0
88.2144	20.02	-3.90	227388.560	2.0	340748.720	2.0	88.5263	26.02	-1.85	25142.400	3.0	138103.120	4.0
88.2146	26.02	-6.64	21857.200	2.0	135217.170	1.0	88.5308	23.02	-1.83	49805.290	3.5	162760.280	4.5
88.2154	26.02	-4.78	116898.220	2.0	230257.150	2.0	88.5314	26.02	-2.03	116467.410	4.0	229421.730	4.0
88.2223	26.02	-4.16	116898.220	2.0	230248.260	1.0	88.5325	29.01	-2.63	26264.400	2.0	139217.300	2.0
88.2229	25.02	-2.30	26857.800	2.5	140207.090	2.5	88.5377	26.02	-2.78	116475.440	3.0	229421.730	4.0
88.2245	25.02	-2.16	26859.900	3.5	140207.090	2.5	88.5380	7.00	-2.15	0.000	1.5	112945.809	2.5
88.2294	26.02	-1.31	21208.500	0.0	134549.380	1.0	88.5447	16.01	-4.67	0.000	1.5	112937.330	5.5
88.2331	25.02	-4.43	32307.300	3.5	145643.450	2.5	88.5463	28.02	-3.81	0.000	4.0	112935.300	3.0
88.2363	27.02	-2.73	17766.200	3.5	131098.200	4.5	88.5465	28.02	-2.70	16977.800	1.0	129912.800	2.0
88.2410	9.02	-2.46	376814.020	2.5	490140.000	1.5	88.5527	7.00	-3.03	0.000	1.5	112927.055	1.5
88.2410	9.02	-3.29	376814.020	2.5	490140.000	2.5	88.5622	20.04	-3.35	43841.000	0.0	156756.000	1.0
88.2433	27.02	-1.57	15201.900	2.5	128524.900	2.5	88.5648	14.02	-3.82	52853.280	1.0	165765.000	2.0
88.2442	25.02	-2.59	26857.800	2.5	140179.740	2.5	88.5656	7.00	-2.90	0.000	1.5	112910.630	2.5
88.2458	25.02	-3.02	26859.900	3.5	140179.740	2.5	88.5668	7.00	-6.65	0.000	1.5	112909.076	1.5
88.2483	20.02	-3.29	227432.110	1.0	340748.720	2.0	88.5708	7.00	-3.33	0.000	1.5	112904.000	5.5
88.2623	28.01	-3.08	8393.500	4.5	121692.550	4.5	88.5741	28.01	-2.99	14995.570	2.5	127895.330	3.5
88.2644	28.02	-2.33	16661.600	2.0	129957.600	1.0	88.5754	26.02	-2.84	21462.200	4.0	134360.400	4.0
88.2645	24.02	-4.69	59.900	1.0	113355.700	2.0	88.5793	9.02	-3.83	351330.800	1.5	464223.930	1.5
88.2673	28.02	-2.47	16661.600	2.0	129953.900	3.0	88.5844	29.01	-1.08	22846.970	2.0	135733.600	3.0
88.2733	28.01	-2.18	23108.280	2.5	136392.850	3.5	88.5871	27.02	-1.99	15201.900	2.5	128085.200	2.5
88.2752	26.02	-4.71	116975.050	2.0	230257.150	2.0	88.5973	7.00	-2.36	0.000	1.5	112870.270	5.5
88.2797	26.02	-3.44	21699.900	3.0	134976.220	3.0	88.5997	24.02	-1.32	18581.600	4.0	131448.800	5.0
88.2861	24.02	-4.70	17850.000	2.0	131118.100	3.0	88.6003	26.02	-2.72	738.900	2.0	113605.370	3.0
88.2877	12.02	-2.53	475502.900	1.0	588768.900	2.0	88.6036	17.01	-1.24	27877.800	0.0	140740.000	1.0
88.2917	9.02	-2.29	376819.070	3.5	490140.000	2.5	88.6086						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
88.7081	27.02	-1.24	16977.600	4.5	129706.900	3.5
88.7100	28.02	-4.12	17230.700	0.0	129957.600	1.0
88.7115	27.02	-3.88	15811.400	.5	128536.300	.5
88.7146	28.01	-7.86	23796.180	1.5	136517.200	.5
88.7310	26.02	-1.51	19404.800	2.0	132104.940	2.0
88.7333	26.01	-5.89	10115.660	2.5	122812.970	3.5
88.7373	26.02	-1.35	21857.200	2.0	134549.380	1.0
88.7375	7.00	-3.17	0.000	1.5	112691.960	.5
88.7376	26.02	-1.71	21857.200	2.0	134549.000	3.0
88.7382	13.03	-1.90	690244.900	0.0	802936.000	1.0
88.7404	19.02	-3.31	1112.400	1.0	113800.700	2.0
88.7424	24.02	-2.61	18581.600	4.0	131267.300	4.0
88.7440	27.02	-2.74	22720.300	5.5	135404.000	4.5
88.7458	7.00	-2.32	0.000	1.5	112681.389	2.5
88.7465	9.02	-2.26	376814.020	2.5	489494.530	3.5
88.7507	26.02	-4.02	19404.800	2.0	132079.910	3.0
88.7531	26.02	-3.98	116898.220	2.0	229570.360	2.0
88.7540	26.02	-3.22	117521.910	4.0	230192.860	3.0
88.7571	24.02	-1.61	18451.000	2.0	131118.100	3.0
88.7623	26.02	-1.45	21699.900	3.0	134360.400	4.0
88.7650	27.02	-1.58	15428.200	1.5	128085.200	2.5
88.7686	25.02	-1.61	32307.300	3.5	144959.740	4.5
88.7691	26.02	-3.25	932.400	1.0	113584.200	2.0
88.7698	26.02	-3.75	24558.800	5.0	137209.730	4.0
88.7771	27.02	-1.42	17766.200	3.5	130407.800	2.5
88.7801	28.01	-8.66	23108.280	2.5	135746.130	1.5
88.7802	28.01	-2.86	23108.280	2.5	135746.060	3.5
88.7811	24.02	-2.82	25725.800	3.0	138362.400	2.0
88.7844	26.02	-2.04	116898.220	2.0	229530.670	1.0
88.7892	19.04	-3.66	24012.700	1.5	136639.000	2.5
88.7978	9.02	-1.31	376879.070	3.5	489494.530	3.5
88.7984	27.02	-1.22	16977.600	4.5	129592.300	4.5
88.8007	27.02	-2.03	15811.400	.5	128423.100	1.5
88.8010	26.02	-3.84	116898.220	2.0	229509.560	3.0
88.8023	12.02	-1.93	478374.500	1.0	590984.200	0.0
88.8024	7.00	-2.49	0.000	1.5	112609.612	1.5
88.8036	24.02	-2.73	18510.000	3.0	131118.100	3.0
88.8135	23.02	-4.78	49327.740	2.5	161923.280	2.5
88.8136	26.02	-3.91	116975.050	2.0	229570.360	2.0
88.8154	26.02	-2.78	116937.570	1.0	229530.670	1.0
88.8196	11.02	-3.67	416910.200	.5	529498.000	1.5
88.8202	26.02	-1.27	24940.900	4.0	137527.920	4.0
88.8246	24.02	-1.74	25781.000	2.0	138362.400	2.0
88.8259	23.02	-4.06	49805.290	3.5	162385.110	3.5
88.8270	27.02	-2.48	16977.600	4.5	129556.000	5.5
88.8341	8.02	-2.17	290956.620	1.0	403526.000	1.0
88.8346	12.03	-2.62	612240.300	1.5	724809.000	.5
88.8372	26.02	-2.74	21699.900	3.0	134265.420	2.0
88.8372	7.00	-2.98	0.000	1.5	112565.470	.5
88.8450	26.02	-4.29	116975.050	2.0	229530.670	1.0
88.8476	26.02	-1.34	30356.200	6.0	142908.480	5.0
88.8601	24.02	-3.51	18581.600	4.0	131118.100	3.0
88.8616	26.02	-3.09	116975.050	2.0	229509.560	3.0
88.8632	28.01	-4.12	9330.040	3.5	121862.570	3.5
88.8647	23.02	-2.94	49805.290	3.5	162385.110	3.5
88.8681	28.01	-5.46	25036.380	2.5	137562.740	3.5
88.8712	28.01	-7.61	23108.280	2.5	135630.630	2.5
88.8722	28.01	-7.44	23108.280	2.5	135629.400	3.5
88.8768	28.01	-8.32	23108.280	2.5	135623.590	1.5
88.8776	28.01	-8.48	23108.280	2.5	135622.600	3.5
88.8777	24.02	-2.28	25848.200	1.0	138362.400	2.0
88.8781	26.02	-1.38	20051.100	6.0	132564.710	5.0
88.8797	28.01	-8.00	23108.280	2.5	135619.910	1.5
88.8807	25.02	-2.38	32307.300	3.5	144817.680	3.5
88.8811	28.01	-7.87	23108.280	2.5	135618.080	2.5
88.8815	28.01	-1.67	8393.900	4.5	120903.200	3.5
88.8826	26.02	-2.69	49576.900	1.0	162084.800	2.0
88.8875	26.02	-1.93	117068.560	3.0	229570.360	2.0
88.8892	28.01	-7.31	25036.380	2.5	137535.960	3.5
88.8965	28.01	-7.24	25036.380	2.5	137526.730	2.5
88.8991	28.01	-8.21	25036.380	2.5	137523.510	3.5
88.9011	26.02	-1.58	20300.800	5.0	132785.360	4.0
88.9024	28.01	-8.17	25036.380	2.5	137519.230	2.5
88.9030	26.02	-3.46	24940.900	4.0	137423.000	3.0
88.9340	15.01	-3.01	164.800	1.0	112607.700	2.0
88.9355	26.02	-2.44	117068.560	3.0	229509.560	3.0
88.9411	25.02	-1.52	32383.700	2.5	144817.680	3.5
88.9540	27.02	-3.56	17766.200	3.5	130183.800	3.5
88.9615	26.02	-2.66	21857.200	2.0	134265.420	2.0
88.9643	28.01	-8.03	23108.280	2.5	135512.920	2.5
88.9662	26.02	-3.69	25142.400	3.0	137544.600	2.0
88.9700	27.02	-3.12	20194.900	1.5	132592.400	1.5
88.9721	14.01	-1.24	0.000	.5	112394.820	1.5
88.9763	19.04	-2.94	24249.500	2.5	136639.000	2.5
88.9794	26.02	-2.57	25142.400	3.0	137527.920	4.0
88.9799	28.01	-8.95	23108.280	2.5	135493.260	1.5
88.9881	12.02	-1.35	478846.100	2.0	591220.700	1.0
88.9956	25.02	-2.11	32307.300	3.5	144672.380	2.5
88.9977	28.01	-5.03	9330.040	3.5	121692.550	4.5
89.0009	26.02	-1.48	20300.800	5.0	132659.170	4.0
89.0024	28.01	-7.43	23108.280	2.5	135464.860	3.5
89.0050	28.01	-7.82	23108.280	2.5	135461.550	2.5
89.0051	26.02	-3.42	117068.560	3.0	229421.730	4.0
89.0121	28.02	-2.64	1360.700	3.0	113705.000	4.0
89.0185	28.01	-6.89	23108.280	2.5	135444.470	3.5
89.0186	28.01	-2.53	14995.570	2.5	127331.600	2.5
89.0196	20.02	-2.19	228413.950	3.0	340748.720	2.0
89.0262	28.01	-7.42	23796.180	1.5	136122.610	2.5
89.0382	24.02	-4.60	59.900	1.0	112371.200	2.0
89.0445	26.02	-2.31	20481.900	4.0	132785.360	4.0
89.0519	27.02	-3.11	20194.900	1.5	132489.000	2.5
89.0532	28.01	-7.24	23108.280	2.5	135400.670	3.5
89.0549	28.02	-4.25	1360.700	3.0	113651.000	2.0
89.0562	29.01	-8.83	22846.970	2.0	135135.600	1.0
89.0562	25.02	-3.71	32383.700	2.5	144672.380	2.5
89.0570	25.02	-1.60	32384.700	1.5	144672.380	2.5
89.0596	24.02	-4.34	181.900	2.0	112466.200	3.0
89.0626	26.02	-4.26	25142.400	3.0	137423.000	3.0
89.0676	28.01	-1.34	23108.280	2.5	135382.530	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
89.0719	26.02	-2.48	24940.900	4.0	137209.730	4.0
89.0758	26.02	-4.10	20300.800	5.0	132564.710	5.0
89.0787	23.02	-3.00	49327.740	2.5	161588.040	3.5
89.0819	27.02	-3.60	15201.900	2.5	127458.100	1.5
89.0935	23.02	-2.85	49327.740	2.5	161569.410	1.5
89.0984	25.02	-1.52	32383.700	2.5	144619.190	1.5
89.0992	25.02	-2.19	32384.700	1.5	144619.190	1.5
89.1072	28.01	-6.40	14995.570	2.5	127219.970	3.5
89.1145	25.02	-2.06	32404.000	.5	144619.190	1.5
89.1146	25.02	-4.85	32307.300	3.5	144522.300	4.5
89.1174	26.02	.08	20051.100	6.0	132262.660	6.0
89.1351	24.02	-5.07	181.900	2.0	112371.200	2.0
89.1446	26.02	-4.16	20481.900	4.0	132659.170	4.0
89.1482	14.03	-1.96	218266.860	.5	330439.660	.5
89.1534	20.02	-3.62	228413.950	3.0	340580.150	3.0
89.1753	15.01	-3.19	469.000	2.0	112607.700	2.0
89.1760	29.01	-2.23	26264.400	2.0	138402.200	3.0
89.1902	27.02	-8.83	20194.900	1.5	132314.900	.5
89.1918	23.02	-3.00	49805.290	3.5	161923.280	2.5
89.1935	27.02	-2.83	15201.900	2.5	127317.700	3.5
89.1978	24.02	-4.57	355.800	3.0	112466.200	3.0
89.2000	14.01	-9.99	287.320	1.5	112394.820	1.5
89.2001	14.01	-1.95	287.320	1.5	112394.820	1.5
89.2024	13.02	-2.15	53682.930	.5	165787.510	1.5
89.2051	28.02	-2.59	2269.600	2.0	114370.800	2.0
89.2182	26.02	-3.06	118163.560	2.0	230248.260	1.0
89.2197	26.02	-1.48	20481.900	4.0	132564.710	5.0
89.2200	11.02	-4.32	417415.500	1.5	529498.000	1.5
89.2321	26.02	-4.51	25142.400	3.0	137209.730	4.0
89.2397	25.02	.03	0.000	2.5	112057.800	3.5
89.2411	29.01	-1.56	21928.600	3.0	133984.600	3.0
89.2412	26.02	-4.02	57221.700	4.0	169277.600	4.0
89.2427	26.02	-6.69	24558.800	5.0	136612.760	4.0
89.2433	28.01	-7.23	23796.180	1.5	135849.410	2.5
89.2463	11.02	-3.65	417415.500	1.5	529465.000	2.5
89.2517	24.02	-4.26	355.800	3.0	112398.500	4.0
89.2537	26.02	-2.08	19404.800	2.0	131445.030	2.0
89.2619	27.02	-3.49	15428.200	1.5	127458.100	1.5
89.2634	10.04	-4.55	63899.000	0.0	175927.000	1.0
89.2681	26.02	-2.64	30886.400	4.0	142908.480	5.0
89.2734	24.02	-5.02	355.800	3.0	112371.200	2.0
89.2770	14.03	-1.66	218428.670	1.5	330439.660	.5
89.2772	26.02	-2.94	118246.520	3.0	230257.150	2.0
89.2813	15.02	-1.06	74915.100	1.5	186920.700	1.5
89.2875	26.02	-4.14	30857.800	3.0	142855.590	4.0
89.2897	28.01	-1.73	9330.040	3.5	121325.090	2.5
89.2956	26.02	-1.60	117521.910	4.0	229509.560	3.0
89.3008	27.02	-1.34	17766.200	3.5	129747.300	2.5
89.3048	15.02	-0.09	74944.600	2.5	186920.700	1.5
89.3050	27.02	-0.57	22720.300	5.5	134696.100	5.5
89.3099	27.02	-0.79	23434.300	4.5	1354004.000	4.5
89.3103	26.02	-1.22	30886.400	4.0	142855.590	4.0
89.3161	26.02	-1.82	20300.800	5.0	132262.660	6.0
89.3191	26.02	-9.71	30088.840	3.0	142047.000	4.0
89.3213	12.02	-2.06	479265.300	0.0	591220.700	1.0
89.3221	29.01	-3.86	23998.220	1.0	135952.550	2.0
89.3256	28.01	-7.40	23796.180	1.5	135746.130	1.5
89.3285	26.02	-4.09	118246.520	3.0	230192.860	3.0
89.3330	27.02	-1.53	17766.200	3.5	129706.900	3.5
89.3332	26.02	-2.62	20051.100	6.0	131991.580	7.0
89.3536	28.02	-1.30	23108.700	4.0	135023.600	3.0
89.3556	26.02	-1.63	117521.910	4.0	229421.730	4.0
89.3656	26.02	-3.94	50184.900	2.0	162084.800	2.0
89.3667	28.02	-4.07	0.000	4.0	111898.500	4.0
89.3674	29.01	-0.53	21928.600	3.0	133826.200	2.0
89.3717	27.02	-0.64	24236.800	1.5	136129.100	2.5
89.3725	24.02	-4.41	575.000	4.0	112466.200	3.0
89.3786	25.02	-1.10	0.000	2.5	111883.600	2.5
89.3860	28.01	-8.84	23796.180	1.5	135670.490	.5
89.3887	13.02	-2.87	53916.600	1.5	165787.510	1.5
89.3897	13.02	-1.92	53916.600	1.5	165786.320	2.5
89.4001	28.01	-7.72	23796.180	1.5	135652.930	1.5
89.4003	28.01	-1.90	23108.280	2.5	134964.780	1.5
89.4005	26.02	-0.82	24940.900	4.0	136797.050	3.0
89.4031	17.04	-5.00	158892.000	1.5	2077045.000	.5
89.4092	9.02	-3.59	355981.900	1.5	467827.160	1.5
89.4114	26.02	-3.39	118350.240	4.0	230192.860	3.0
89.4132	28.02	-3.60	2269.600	2.0	114109.900	3.0
89.4150	23.02	-2.11	49327.740	2.5	161165.810	2.5
89.4179	28.01	-7.34	23796.180	1.5	135630.630	2.5
89.4196	26.02	-4.24	35803.700	2.0	147635.950	3.0
89.4225	29.01	-1.08	22846.970	2.0	134675.600	2.0
89.4235	28.01	-7.37	23796.180	1.5	135623.590	1.5
89.4246	27.02	-3.78	17766.200	3.5	129592.300	4.5
89.4248	28.02	-4.43	2269.600	2.0	114095.400	1.0
89.4265	28.01	-7.65	23796.180	1.5	135619.910	1.5
89.4266	24.02	-3.86	575.000	4.0	112398.500	4.0
89.4279	28.01	-7.50	23796.180	1.5	135618.080	2.5
89.4303	26.02	-2.50	30716.200	2.0	142535.070	2.0
89.4310	18.00	-2.13	0.000	0.0	111816.090	1.0
89.4341	26.02	-3.53	118442.920	3.0	230257.150	2.0
89.4342	17.04	.09	1492.000	1.5	113308.000	2.5
89.4367	26.02	-2.97	35803.700	2.0	147614.650	2.0
89.4378	20.02	-3.16	227388.560	2.0	339198.090	1.0
89.4380	26.02	-1.74	30725.800	1.0	142535.070	2.0
89.4432	28.01	-8.05	23796.180	1.5	135599.000	.5
89.4482	27.02	-2.74	15428.200	1.5	127224.760	.5
89.4538	26.02	-2.73	50295.200	3.0	162084.800	2.0
89.4557	9.02	-2.90	355981.900	1.5	467769.110	.5
89.4569	27.02	-4.50	15201.900	2.5	126987.600	1.5
89.4584	28.01	-6.61	0.000	2.5	111783.790	3.5
89.4592	23.02	-2.00	49805.290	3.5	161588.040	3.5
89.4603	25.02	-0.51	26824.400	5.5	138605.800	6.5
89.4633	25.02	-1.87	26857.800	2.5	138635.460	2.5
89.4642	25.02	-0.28	0.000	2.5	111776.600	1.5
89.4650	25.02	-1.27	26859.900	3.5	138635.460	2.5
89.4727	20.02	-3.96	227432.110	1.0	339198.090	1.0
89.4737	12.02	-1.56	479456.000	1.0	591220.700	1.0
89.4772	28.01	-7.68	24788.200	1.5	136548.550	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
89.4833	26.02	-3.27	35803.700	2.0	147556.450	1.0	89.8574	24.02	-4.66	355.800	3.0	111643.300	4.0
89.4855	26.02	-4.32	118442.920	3.0	230192.860	3.0	89.8620	13.01	-2.61	37392.000	0.0	148673.700	1.0
89.4879	28.01	-6.95	10115.660	2.5	121862.570	3.5	89.8624	27.02	-2.33	16977.600	4.5	128258.900	5.5
89.4909	28.01	-3.64	14995.570	2.5	126738.820	1.5	89.8642	24.02	-4.51	575.000	4.0	111854.000	5.0
89.4910	28.01	-7.72	24788.200	1.5	136531.260	1.5	89.8655	26.02	-2.58	82333.920	3.0	193611.370	4.0
89.4919	17.04	-4.93	1492.000	1.5	113234.000	1.5	89.8658	26.02	-3.17	82333.920	3.0	193610.920	3.0
89.5023	28.01	-8.35	24788.200	1.5	136517.200	1.5	89.8694	28.01	-2.51	23108.280	2.5	134380.820	3.5
89.5090	28.01	-2.19	9330.040	3.5	121050.660	2.5	89.8698	26.02	-4.01	82333.920	3.0	193605.990	2.0
89.5121	28.01	-6.44	23796.180	1.5	135512.920	2.5	89.8707	25.02	-2.63	26857.800	2.5	138128.800	1.5
89.5228	14.03	-1.77	193978.890	1.5	305682.270	1.5	89.8714	28.01	-1.91	10115.660	2.5	121385.800	1.5
89.5279	28.01	-7.68	23796.180	1.5	135493.260	1.5	89.8771	26.02	-4.75	118246.520	3.0	229509.560	3.0
89.5326	12.02	-1.36	477435.700	2.0	589126.600	1.0	89.8781	27.02	-1.89	23434.300	4.5	134696.100	5.5
89.5334	27.02	-2.15	15201.900	2.5	126892.100	3.5	89.8802	26.02	-2.73	24940.900	4.0	136200.130	3.0
89.5343	27.02	-2.30	20194.900	1.5	131883.900	2.5	89.8885	23.02	-4.40	49327.740	2.5	160576.620	3.5
89.5378	28.01	-3.26	10115.660	2.5	121800.340	1.5	89.8923	26.02	-3.78	24940.900	4.0	136185.170	5.0
89.5437	26.02	-5.39	30857.800	3.0	142535.070	2.0	89.8951	26.02	-4.74	89084.790	3.0	200325.560	4.0
89.5457	28.01	-1.79	23108.280	2.5	134783.140	2.5	89.9047	26.02	-1.93	20481.900	4.0	131710.760	5.0
89.5464	27.02	-2.66	20918.500	1.5	132592.400	1.5	89.9069	28.02	-1.93	23108.700	4.0	134334.900	3.0
89.5476	26.02	-2.32	50412.300	2.0	162084.800	2.0	89.9102	23.02	-4.88	49805.290	3.5	161027.320	4.5
89.5481	26.02	-2.02	24940.900	4.0	136612.780	4.0	89.9112	28.02	-3.28	0.000	4.0	111220.900	3.0
89.5504	27.02	-2.58	15201.900	2.5	126870.900	2.5	89.9120	13.01	-2.13	37453.800	1.0	148673.700	1.0
89.5533	28.01	-7.15	23796.180	1.5	135461.550	2.5	89.9204	28.01	-2.47	10115.660	2.5	121325.090	2.5
89.5558	14.03	-2.07	193978.890	1.5	305641.100	1.5	89.9305	26.02	-1.70	21462.200	4.0	132659.170	4.0
89.5564	6.01	-1.79	110624.170	1.5	222285.700	1.5	89.9336	24.02	-5.12	181.900	2.0	111375.000	3.0
89.5578	26.02	-1.95	20051.100	6.0	131710.790	5.0	89.9368	26.02	-1.49	30857.800	3.0	142047.000	4.0
89.5619	26.02	-2.77	25142.400	3.0	136797.050	3.0	89.9388	28.01	-7.06	23108.280	2.5	134294.990	2.5
89.5645	26.02	-1.93	25142.400	3.0	136793.820	2.0	89.9404	14.01	-2.01	0.000	5.0	111184.720	1.5
89.5661	29.01	-2.64	26264.400	2.0	137913.800	1.0	89.9415	26.02	-1.12	30356.200	6.0	141539.550	6.0
89.5683	27.02	-2.75	15811.400	1.5	127458.100	1.5	89.9437	26.02	-2.19	24558.800	5.0	135739.470	6.0
89.5779	6.01	-2.10	110624.170	1.5	222258.800	1.5	89.9443	27.02	-2.53	15201.900	2.5	126381.800	1.5
89.5846	26.02	-1.96	24558.800	5.0	136185.170	5.0	89.9471	26.02	-1.32	24558.800	5.0	135735.310	5.0
89.5896	6.01	-2.09	110665.560	1.5	222285.700	1.5	89.9473	27.02	-3.03	15811.400	1.5	126987.600	1.5
89.5929	13.02	-6.30	33267.000	0.0	144882.930	1.0	89.9481	26.02	-2.13	118246.520	3.0	229421.730	4.0
89.5946	14.02	-1.84	142943.740	3.0	254557.640	4.0	89.9535	28.01	-4.32	23796.180	1.5	134964.780	1.5
89.5949	14.02	-1.90	142943.740	3.0	254557.260	3.0	89.9599	26.02	-3.69	30886.400	4.0	142047.000	4.0
89.5951	14.02	-3.44	142943.740	3.0	254557.030	2.0	89.9610	26.02	-2.48	118350.240	4.0	229509.560	3.0
89.5966	14.02	-1.00	142945.840	2.0	254557.260	3.0	89.9654	28.01	-8.42	23108.280	2.5	134262.070	3.5
89.5968	14.02	-1.90	142945.840	2.0	254557.030	2.0	89.9703	28.01	-8.49	23108.280	2.5	134256.050	2.5
89.5984	26.02	-3.11	82001.730	2.0	193610.920	3.0	89.9714	28.01	-7.42	23108.280	2.5	134254.690	1.5
89.5987	14.02	-1.17	142948.250	1.0	254557.030	2.0	89.9729	28.01	-7.13	23108.280	2.5	134252.850	3.5
89.6023	26.02	-3.31	82001.730	2.0	193605.990	2.0	89.9754	28.01	-8.81	23108.280	2.5	134249.720	1.5
89.6073	26.02	-1.94	20481.900	4.0	132079.910	3.0	89.9785	29.01	-1.95	22846.970	2.0	133984.600	3.0
89.6073	26.02	-3.90	82001.730	2.0	193599.740	1.0	89.9787	29.01	-1.07	23998.220	1.0	135135.600	1.0
89.6084	26.02	-1.65	30716.200	2.0	142312.900	3.0	89.9795	28.01	-4.28	10665.890	1.5	121800.340	1.5
89.6112	6.01	-1.39	110665.560	1.5	222258.800	1.5	89.9868	26.02	-3.79	118442.920	3.0	229570.360	2.0
89.6166	24.02	-4.14	17167.400	1.0	128753.900	2.0	89.9873	25.02	-6.03	29167.700	2.5	140294.440	3.5
89.6167	28.01	-1.94	23796.180	1.5	135382.530	1.5	89.9896	29.01	-8.57	0.000	0.0	111124.000	1.0
89.6245	24.02	-3.17	17272.800	4.0	128849.400	4.0	89.9924	28.01	-6.58	0.000	2.5	111120.540	1.5
89.6261	28.02	-3.56	1360.700	3.0	112935.300	3.0	90.0000	25.02	-3.26	26824.400	5.5	137935.530	4.5
89.6273	28.01	-2.54	9330.040	3.5	120903.200	3.5	90.0016	28.02	-1.09	23108.700	4.0	134217.800	5.0
89.6383	27.02	-2.78	15428.200	1.5	126987.600	1.5	90.0062	26.02	-4.40	89334.510	2.0	200437.940	2.0
89.6391	26.02	-4.81	57221.700	4.0	168780.100	5.0	90.0070	26.02	-2.04	21462.200	4.0	132564.710	5.0
89.6575	26.02	-4.75	118721.600	2.0	230257.150	2.0	90.0077	28.01	-3.10	13550.390	3.5	124652.000	4.5
89.6634	12.02	-1.88	479456.000	1.0	590984.200	0.0	90.0090	28.01	-1.44	23108.280	2.5	134208.300	2.5
89.6757	29.01	-1.12	22846.970	2.0	134359.900	1.0	90.0135	13.01	-1.91	37579.300	2.0	148673.700	1.0
89.6763	28.01	-8.06	25036.380	2.5	136548.550	2.5	90.0139	17.04	-4.97	158892.000	1.5	269986.000	2.5
89.6767	25.02	-7.78	26851.100	4.5	138362.800	3.5	90.0193	26.02	-2.50	39803.700	2.0	146891.040	3.0
89.6775	28.01	-7.86	25036.380	2.5	136547.130	3.5	90.0202	28.01	-8.15	25036.380	2.5	136122.610	2.5
89.6785	26.02	-2.32	17272.800	4.0	128782.200	3.0	90.0208	26.02	-2.13	21699.900	3.0	132785.360	4.0
89.6808	26.02	-2.77	118686.250	4.0	230192.860	3.0	90.0216	25.02	-1.70	26851.100	4.5	137935.530	4.5
89.6814	28.01	-8.04	25036.380	2.5	136542.280	3.5	90.0221	25.02	-2.15	26824.400	5.5	137908.200	5.5
89.6821	25.02	-2.38	26857.800	2.5	138362.800	3.5	90.0253	11.02	-3.65	418418.100	1.5	529498.000	1.5
89.6838	25.02	-1.29	26859.900	3.5	138362.800	3.5	90.0264	28.01	-9.35	10115.660	2.5	121194.140	2.5
89.6902	28.01	-8.79	25036.380	2.5	136531.260	1.5	90.0279	28.01	-9.66	10115.660	2.5	121192.320	3.5
89.6955	25.02	-6.68	26824.400	5.5	138312.700	4.5	90.0287	25.02	-4.69	26859.900	3.5	137935.530	4.5
89.6973	29.01	-1.98	23998.220	1.0	135484.300	0.0	90.0295	23.02	-4.24	49805.290	3.5	160879.980	4.5
89.6999	25.02	-1.68	26857.800	2.5	138340.620	2.5	90.0321	26.02	-2.89	118350.240	4.0	229421.730	4.0
89.7016	25.02	-1.04	26859.900	3.5	138340.620	2.5	90.0347	24.02	-5.54	575.000	4.0	111643.300	4.0
89.7085	17.01	-1.01	27877.800	0.0	139350.000	1.0	90.0351	26.02	-1.29	24940.900	4.0	136008.740	3.0
89.7092	26.02	-3.92	118721.600	2.0	230192.860	3.0	90.0360	26.02	-3.21	118442.920	3.0	229509.560	3.0
89.7099	26.02	-2.35	25142.400	3.0	136612.780	4.0	90.0375	18.03	-4.55	34856.200	1.5	145921.000	1.5
89.7170	25.02	-1.30	26851.100	4.5	138312.700	4.5	90.0391	28.01	-8.92	10115.660	2.5	121178.560	3.5
89.7220	9.02	-2.63	356371.820	2.5	467827.150	1.5	90.0404	28.01	-7.72	24788.200	1.5	135849.410	2.5
89.7222	26.02	-2.87	30857.800	3.0	142312.900	3.0	90.0433	26.02	-2.94	25142.400	3.0	136200.130	3.0
89.7232	24.02	-2.12	17395.500	5.0	128849.400	4.0	90.0438	25.02	-1.47	26851.100	4.5	137908.200	5.5
89.7241	25.02	-2.17	26859.900	3.5	138312.700	4.5	90.0480	23.02	-3.12	49327.740	2.5	160379.640	2.5
89.7322	27.02	-2.06	15428.200	1.5	126870.900	2.5	90.0497	26.02	-4.68	89334.510	2.0	200384.280	3.0
89.7361	28.02	-4.81	103306.100	3.0	214744.000	2.0	90.0498	26.02	-1.74	24940.900	4.0	135990.620	4.0
89.7410	26												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
90.1452	24.02	-3.65	17850.000	2.0	128782.200	3.0
90.1495	28.01	-2.93	10115.660	2.5	121042.570	1.5
90.1569	28.01	-7.52	25036.380	2.5	135954.090	3.5
90.1598	26.02	-7.22	30088.840	3.0	141002.990	4.0
90.1682	24.02	-4.73	17850.000	2.0	128753.900	2.0
90.1693	25.02	-3.29	32307.300	3.5	143209.800	2.5
90.1695	16.02	-1.78	27159.100	0.0	138061.400	1.0
90.1734	14.01	-1.71	287.320	1.5	111184.720	.5
90.1736	28.01	-1.76	10663.890	1.5	121561.060	.5
90.1812	18.03	-1.43	35033.100	1.5	145921.000	1.5
90.1857	28.01	-9.33	24788.200	1.5	135670.490	.5
90.1907	23.02	-3.19	49805.290	3.5	160681.480	3.5
90.1987	26.02	-1.47	25142.400	3.0	136008.740	3.0
90.1998	28.01	-1.32	23108.280	2.5	133973.330	2.5
90.2000	28.01	-8.20	24788.200	1.5	135652.930	1.5
90.2002	26.02	-4.57	118557.250	5.0	229421.730	4.0
90.2086	25.02	-3.28	32307.300	3.5	143161.500	4.5
90.2130	26.02	-2.45	118721.600	2.0	229570.360	2.0
90.2134	26.02	-2.69	25142.400	3.0	135990.620	4.0
90.2177	28.01	-8.92	25036.380	2.5	135879.410	3.5
90.2182	28.01	-7.83	24788.200	1.5	135630.630	2.5
90.2239	28.01	-7.86	24788.200	1.5	135623.590	1.5
90.2269	28.01	-8.13	24788.200	1.5	135619.910	1.5
90.2280	8.02	-1.12	290956.620	1.0	401787.000	2.0
90.2284	28.01	-7.98	24788.200	1.5	135618.080	2.5
90.2315	25.02	-4.72	32383.700	2.5	143209.800	2.5
90.2323	25.02	-1.41	32384.700	1.5	143209.800	2.5
90.2337	26.02	-3.23	118686.250	4.0	229509.560	3.0
90.2393	23.02	-4.61	49327.740	2.5	160144.260	1.5
90.2420	29.01	-2.17	26264.400	2.0	137077.600	3.0
90.2421	28.01	-9.74	25036.380	2.5	135849.410	2.5
90.2439	28.01	-8.53	24788.200	1.5	135599.000	.5
90.2453	26.02	-3.38	118721.600	2.0	229530.670	1.0
90.2453	25.02	-3.80	26851.100	4.5	137660.240	3.5
90.2507	25.02	-7.74	26857.800	2.5	137660.240	3.5
90.2524	25.02	-1.89	26859.900	3.5	137660.240	3.5
90.2527	24.02	-5.85	575.000	4.0	111375.000	3.0
90.2573	26.02	-2.01	24940.900	4.0	135735.310	5.0
90.2589	28.01	-4.30	10663.890	1.5	121456.320	1.5
90.2602	27.02	-3.86	15201.900	2.5	125992.700	2.5
90.2611	25.02	-3.34	32307.300	3.5	143097.000	3.5
90.2625	26.02	-1.73	118721.600	2.0	229509.560	3.0
90.2629	28.01	-3.85	10115.660	2.5	120903.200	3.5
90.2717	25.02	-3.81	29167.700	2.5	139944.400	3.5
90.2815	26.02	-1.29	24940.900	4.0	135705.570	3.0
90.2815	25.02	-1.72	32383.700	2.5	143148.400	1.5
90.2823	25.02	-7.99	32384.700	1.5	143148.400	1.5
90.2864	27.02	-2.84	17766.200	3.5	128524.900	2.5
90.2872	26.02	-1.40	24558.800	5.0	135316.420	5.0
90.2880	26.02	-2.64	20688.400	1.0	131445.030	2.0
90.2886	18.02	-3.67	33267.000	0.0	144023.000	1.0
90.2908	26.02	-6.30	30716.200	2.0	141469.450	1.0
90.2916	12.02	-1.59	478374.500	1.0	589126.800	1.0
90.2932	26.02	-1.40	30716.200	2.0	141466.530	3.0
90.2950	25.02	-4.37	26851.100	4.5	137599.200	3.5
90.2980	25.02	-1.43	32404.000	.5	143148.400	1.5
90.2986	26.02	-3.75	30725.800	1.0	141469.450	1.0
90.2995	28.01	-6.65	23108.280	2.5	133850.830	3.5
90.2997	25.02	-1.53	32384.700	1.5	143127.000	.5
90.3005	25.02	-3.48	26857.800	2.5	137599.200	3.5
90.3022	25.02	-2.62	26859.900	3.5	137599.200	3.5
90.3053	26.02	-4.28	118686.250	4.0	229421.730	4.0
90.3141	28.01	-6.93	24788.200	1.5	135512.920	2.5
90.3155	25.02	-1.28	32404.000	.5	143127.000	.5
90.3164	28.01	-2.53	10663.890	1.5	121385.800	1.5
90.3227	27.02	-9.96	20194.900	1.5	130909.000	1.5
90.3234	25.02	-3.89	32383.700	2.5	143097.000	3.5
90.3248	25.02	-4.99	0.000	2.5	110711.620	3.5
90.3263	28.01	-8.62	25036.380	2.5	135746.130	1.5
90.3263	28.01	-3.04	25036.380	2.5	135746.060	3.5
90.3296	26.02	-2.22	20051.100	6.0	130756.840	6.0
90.3301	28.01	-8.16	24788.200	1.5	135493.260	1.5
90.3322	26.02	-2.17	118867.870	1.0	229570.360	2.0
90.3359	13.01	-3.12	37392.000	0.0	148090.000	1.0
90.3482	26.02	-2.42	30716.200	2.0	141399.040	2.0
90.3498	26.02	-3.33	24558.800	5.0	135239.740	4.0
90.3504	12.02	-4.37	474053.200	3.0	584733.400	3.0
90.3527	29.01	-2.84	23998.220	1.0	134675.600	2.0
90.3560	28.01	-7.64	24788.200	1.5	135461.550	2.5
90.3561	26.02	-1.58	30725.800	1.0	141399.040	2.0
90.3601	23.02	-4.01	49327.740	2.5	159996.000	2.5
90.3622	28.02	-5.03	2269.600	2.0	112935.300	3.0
90.3646	26.02	-2.31	118867.870	1.0	229530.670	1.0
90.3659	28.01	-3.84	10663.890	1.5	121325.090	2.5
90.3665	13.01	-3.53	37392.000	0.0	148052.500	1.0
90.3729	27.02	-6.62	23058.800	2.5	133711.400	2.5
90.3863	13.01	-3.24	37453.800	1.0	148090.000	1.0
90.3863	13.01	-2.76	37453.800	1.0	148090.000	2.0
90.4014	26.02	-1.43	21462.200	4.0	132079.910	3.0
90.4026	26.02	-4.61	89907.850	4.0	200524.120	5.0
90.4049	26.02	-2.58	24940.900	4.0	135554.410	4.0
90.4059	25.02	-1.92	26824.400	5.5	137436.700	4.5
90.4069	9.02	-1.94	356371.820	2.5	466982.860	2.5
90.4088	26.02	-3.24	30857.800	3.0	141466.530	3.0
90.4107	9.02	-3.08	356371.820	2.5	466978.150	1.5
90.4122	27.02	-1.10	20194.900	1.5	130799.500	.5
90.4122	26.02	-9.67	30088.840	3.0	140693.360	3.0
90.4170	13.01	-3.06	37453.800	1.0	148052.500	1.0
90.4180	24.02	-2.53	20851.300	4.0	131448.800	5.0
90.4205	28.01	-1.20	24788.200	1.5	135382.530	1.5
90.4206	28.01	-7.57	25036.380	2.5	135630.630	2.5
90.4216	28.01	-7.40	25036.380	2.5	135629.400	3.5
90.4264	28.01	-8.28	25036.380	2.5	135623.590	1.5
90.4272	28.01	-8.43	25036.380	2.5	135622.600	3.5
90.4277	25.02	-3.77	26851.100	4.5	137436.700	4.5
90.4294	28.01	-7.96	25036.380	2.5	135619.910	1.5
90.4296	28.02	-1.41	23108.280	4.0	133692.000	5.0
90.4309	28.01	-7.83	25036.380	2.5	135618.080	2.5
90.4322	26.02	-1.26	30886.400	4.0	141466.530	3.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
90.4349	25.02	-1.79	26859.900	3.5	137436.700	4.5
90.4369	23.02	-4.40	49805.290	3.5	160379.640	2.5
90.4377	28.01	-5.71	0.000	2.5	110573.360	2.5
90.4377	8.02	-2.74	290956.620	1.0	401530.000	2.0
90.4401	27.02	-3.27	15811.400	.5	126381.800	1.5
90.4443	24.02	-2.52	20702.000	3.0	131267.300	4.0
90.4449	27.02	-2.74	15428.200	1.5	125992.700	2.5
90.4460	26.02	-2.89	25142.400	3.0	135705.570	3.0
90.4490	26.02	-2.56	119697.640	2.0	230257.150	2.0
90.4540	28.02	-3.27	1360.700	3.0	111914.100	2.0
90.4563	26.02	-3.83	119697.640	2.0	230248.260	1.0
90.4596	28.01	-3.08	24835.930	.5	135382.530	1.5
90.4599	23.02	-4.04	49805.290	3.5	160351.500	3.5
90.4640	26.02	-3.48	30857.800	3.0	141399.040	2.0
90.4668	28.02	-4.20	1360.700	3.0	111898.500	4.0
90.4692	29.01	-3.16	26264.400	2.0	136799.300	2.0
90.4730	28.01	-8.08	10663.890	1.5	121194.140	2.5
90.4890	13.01	-4.42	37579.300	2.0	148090.000	1.0
90.4890	13.01	-3.25	37579.300	2.0	148090.000	2.0
90.4890	13.01	-2.50	37579.300	2.0	148090.000	3.0
90.4987	28.01	-8.13	23796.180	1.5	134294.990	2.5
90.4994	28.01	-8.07	10663.890	1.5	121161.810	1.5
90.5017	26.02	-1.87	119697.640	2.0	230192.860	3.0
90.5071	27.02	-2.66	15201.900	2.5	125690.500	3.5
90.5079	28.01	-2.21	23796.180	1.5	134283.760	.5
90.5116	28.01	-8.28	10663.890	1.5	121146.980	2.5
90.5170	28.01	-7.99	25036.380	2.5	135512.920	2.5
90.5197	13.01	-2.83	37579.300	2.0	148052.500	1.0
90.5204	8.00	-4.97	15867.862	2.0	126340.225	1.0
90.5221	7.00	-1.88	0.000	1.5	110470.444	2.5
90.5244	26.02	-2.78	113584.200	2.0	224051.630	3.0
90.5248	28.01	-2.38	9330.040	3.5	119790.980	2.5
90.5297	26.02	-1.43	49576.900	1.0	160037.900	2.0
90.5305	23.02	-3.50	49327.740	2.5	159787.800	1.5
90.5306	28.01	-9.67	23796.180	1.5	134256.050	2.5
90.5317	28.01	-7.84	23796.180	1.5	134256.090	1.5
90.5331	28.01	-8.91	25036.380	2.5	135493.260	1.5
90.5338	26.02	-3.38	20300.800	5.0	130756.840	6.0
90.5353	24.02	-8.85	20994.600	5.0	131448.800	5.0
90.5358	28.01	-9.41	23796.180	1.5	134249.720	1.5
90.5360	26.02	-2.90	113605.370	3.0	224058.700	4.0
90.5411	7.00	-1.83	0.000	1.5	110447.032	1.5
90.5418	26.02	-3.86	113605.370	3.0	224051.630	3.0
90.5562	25.01	-5.81	0.000	3.0	110428.700	4.0
90.5563	28.01	-7.39	25036.380	2.5	135464.860	3.5
90.5577	28.01	-8.70	10663.890	1.5	121090.710	.5
90.5591	28.01	-7.78	25036.380	2.5	135461.550	2.5
90.5595	25.02	-2.17	26857.800	2.5	137282.400	2.5
90.5605	26.02	-3.66	113635.340	4.0	224056.700	4.0
90.5613	25.02	-4.45	26859.900	3.5	137282.400	2.5
90.5635	28.01	-1.94	23108.280	2.5	133528.020	3.5
90.5663	26.02	-3.80	113635.340	4.0	224051.630	3.0
90.5665	24.02	-1.10	20702.000	3.0	131118.100	3.0
90.5666	24.02	-1.02	20851.300	4.0	131267.300	4.0
90.5698	28.01	-1.95	23796.180	1.5	134208.300	2.5
90.5699	26.02	-2.58	25142.400	3.0	135554.410	4.0
90.5723	14.01	-1.79	42824.350	.5	153233.400	.5
90.5731	28.01	-6.85	25036.380	2.5	135444.470	3.5
90.5756	26.02	-2.35	21699.900	3.0	132104.940	2.0
90.5769	26.02	-3.11	113635.340	4.0	224038.730	5.0
90.5786	7.00	-3.58	0.000	1.5	110401.356	2.5
90.5805	8.00	-4.26	15867.862	2.0	126266.896	2.0
90.5809	25.02	-5.19	0.000	2.5	110398.500	2.5
90.5834	7.00	-2.86	0.000	1.5	110395.463	1.5
90.5843	12.02	-2.23	478374.500	1.0	588768.900	2.0
90.5906	28.01	-3.86	10663.890	1.5	121050.660	2.5
90.5914	7.00	-2.88	0.000	1.5	110385.795	.5
90.5947	26.02	-2.84	113677.010	5.0	224058.700	4.0
90.5961	26.02	-1.83	21699.900	3.0	130279.910	3.0
90.5972	28.01	-8.69	10663.890	1.5	121042.520	1.5
90.5972	28.01	-4.03	10663.890	1.5	121042.570	1.5
90.5998	26.02	-3.92	24940.900	4.0	135316.420	5.0
90.6034	28.02	-2.28	0.000	4.0	110371.100	4.0
90.6090	28.01	-7.19	25036.380	2.5	135400.670	3.5
90.6111	26.02	-4.06	113677.010	5.0	224038.730	5.0
90.6112	29.01	-1.93	23998.220	1.0	134359.900	1.0
90.6125	28.01	-1.34	23796.180	1.5	134156.280	1.5
90.6125	14.01	-1.10	42824.350	.5	153184.400	1.5
90.6207	7.00	-2.15	0.000	1.5	110350.014	.5
90.6239	28.01	-8.85	25036.380	2.5	135382.530	1.5
90.6289	27.02	-3.18	16977.000	4.5	127317.700	3.5
90.6295	24.02	-2.13	18510.000	3.0	128849.400	4.0
90.6362	24.02	-2.22	18451.000	2.0	128782.200	3.0
90.6432	7.00	-2.69	0.000	1.5	110322.721	1.5
90.6462	27.02	-5.79	17766.200	3.5	128085.200	2.5
90.6510	16.01	-1.10	0.000	1.5	110313.130	2.5
90.6594	24.02	-1.60	18451.000	2.0	128753.900	2.0
90.6602	17.01	-2.23	0.000	2.0	110302.000	1.0
90.6612	14.01	-1.10	42932.680	1.5	153233.400	1.5
90.6619	7.00	-1.69	0.000	1.5	110299.974	2.5
90.6622	17.01	-3.23	0.000	2.0	110299.500	2.0
90.6626	26.02	-2.43	113739.620	6.0	224038.730	5.0
90.6628	26.02	-3.39	24940.900	4.0	135239.740	4.0
90.6643	17.01	-7.76	0.000	2.0	110297.000	3.0
90.6671	9.02	-3.74	355981.900	1.5	466275.500	2.5
90.6731	7.00	-2.11	0.000	1.5	110286.305	2.5
90.6765	28.02	-4.43	23108.700	4.0	133390.800	3.0
90.6777	12.02	-2.79	478846.100	2.0	587126.800	1.0
90.6784	25.02	-1.79	26857.800	2.5	137137.690	1.5
90.6825	26.02	-1.99	119982.260	1.0	230257.150	2.0
90.6843	24.02	-1.45	20994.600	5.0	131267.300	3.0
90.6847	24.02	-1.44	18510.000	3.0	128782.200	3.0
90.6854	9.02	-2.27	355981.900	1.5	466255.240	1.5
90.6879	16.01	-3.39	0.000	1.5	110268.330	2.5
90.6883	24.02	-1.31	18581.600	4.0	128849.400	4.0
90.6891	24.02	-1.59	20851.300	4.0	131118.100	3.0
90.6898	26.02	-2.41	119982.260	1.0	230246.260	1.0
90.7013	15.01	-1.34	0.000	0.0	110252.000	1.0
90.7015	14.01	-1.60	42932.680	1.5	153184.400	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
90.7017	27.02	-1.68	17766.200	3.5	128017.700	3.5	91.0005	9.02	-1.28	380250.520	2.5	490140.000	2.5
90.7041	26.02	-1.60	21462.200	4.0	131710.790	5.0	91.0049	28.01	-2.40	13550.390	3.5	123434.600	4.5
90.7048	26.02	-2.07	21857.200	2.0	132104.940	2.0	91.0072	9.02	-3.05	356371.820	2.5	466253.240	1.5
90.7065	12.03	-4.42	603143.300	3.5	713389.000	2.5	91.0075	27.02	-1.14	20918.500	5.5	130799.500	.5
90.7069	7.00	-2.58	0.000	1.5	110245.183	.5	91.0132	28.01	-8.15	23108.280	2.5	132982.510	1.5
90.7080	24.02	-7.86	18510.000	3.0	128753.900	2.0	91.0144	26.02	-2.94	119697.640	2.0	229570.360	2.0
90.7254	26.02	-2.26	21857.200	2.0	132079.910	3.0	91.0194	27.02	-3.22	22720.300	5.5	132587.000	4.5
90.7275	7.00	-2.10	0.000	1.5	110220.107	1.5	91.0221	26.02	-2.45	57221.700	4.0	167085.120	3.0
90.7305	28.02	-2.29	23108.700	4.0	133325.200	4.0	91.0237	12.02	-2.04	479265.300	0.0	589126.800	1.0
90.7335	27.02	-2.28	20194.900	1.5	130407.800	2.5	91.0248	28.02	-2.69	1360.700	3.0	111220.900	3.0
90.7339	28.02	-4.19	0.000	4.0	110212.400	5.0	91.0278	7.00	-2.10	0.000	1.5	109856.520	1.5
90.7339	7.00	-2.25	0.000	1.5	110212.396	2.5	91.0290	28.01	-4.76	8393.900	4.5	118248.980	5.5
90.7375	12.01	-3.19	0.000	.5	110207.990	1.5	91.0307	26.02	-3.31	50184.900	2.0	160037.900	2.0
90.7398	26.02	-2.66	20051.100	6.0	130256.270	5.0	91.0365	28.01	-4.47	0.000	2.5	109846.000	3.5
90.7401	25.01	-6.32	0.000	3.0	110204.900	3.0	91.0370	17.01	-1.38	11653.500	2.0	121499.000	2.0
90.7412	12.01	-3.49	0.000	.5	110203.580	.5	91.0390	27.02	-1.11	24236.800	1.5	134079.800	1.5
90.7436	24.02	-3.89	18581.600	4.0	128782.200	3.0	91.0414	26.02	-2.35	30356.200	6.0	140196.330	7.0
90.7485	7.00	-3.10	0.000	1.5	110194.654	1.5	91.0415	23.02	-5.57	341.500	3.5	110181.470	2.5
90.7518	23.02	-3.27	49805.290	3.5	159996.000	2.5	91.0440	13.01	-3.40	37392.000	0.0	147229.000	1.0
90.7544	15.01	-.58	21576.200	0.0	131763.700	1.0	91.0452	26.02	-1.67	30857.800	3.0	140693.360	3.0
90.7594	23.02	-5.65	0.000	1.5	110181.470	2.5	91.0465	9.02	-3.03	360435.080	1.5	470269.070	.5
90.7625	29.01	-2.56	26264.400	2.0	136442.050	3.0	91.0466	26.02	-2.22	25142.400	3.0	134976.220	3.0
90.7629	28.01	-.71	23796.180	1.5	133973.330	2.5	91.0474	9.02	-1.46	380307.130	1.5	490140.000	1.5
90.7632	16.01	-1.05	0.000	1.5	110176.630	1.5	91.0474	9.02	-2.48	380307.130	1.5	490140.000	2.5
90.7634	28.01	-3.13	24788.200	1.5	134964.780	1.5	91.0487	16.01	-.55	0.000	1.5	109831.280	1.5
90.7666	25.02	-5.87	0.000	2.5	110172.690	1.5	91.0506	13.01	-3.08	37453.800	1.0	147282.800	1.0
90.7692	28.01	-1.67	8393.900	4.5	118563.390	3.5	91.0506	13.01	-2.60	37453.800	1.0	147282.800	2.0
90.7711	27.02	-7.07	15201.900	2.5	125369.100	2.5	91.0515	29.01	-2.30	23998.220	1.0	133826.200	2.0
90.7762	14.01	-1.08	42932.680	1.5	153093.700	2.5	91.0584	28.01	-8.78	23108.280	2.5	132927.970	1.5
90.7801	28.01	-8.82	10115.660	2.5	120271.970	2.5	91.0588	9.02	-3.99	356371.820	2.5	466190.970	3.5
90.7804	26.02	-2.65	24940.900	4.0	135096.840	3.0	91.0625	26.02	-.75	35803.700	2.0	145618.390	2.0
90.7827	28.01	-8.63	10115.660	2.5	120268.810	3.5	91.0645	7.00	-2.48	0.000	1.5	109812.233	.5
90.7893	26.02	-.72	30857.800	3.0	141002.990	4.0	91.0648	26.02	-2.39	119697.640	2.0	229509.560	3.0
90.7921	26.02	-1.73	116364.760	0.0	226506.540	1.0	91.0689	26.02	-1.92	30886.400	4.0	140693.360	3.0
90.7963	26.02	-5.20	25142.400	3.0	135279.040	2.0	91.0715	28.01	-7.16	23108.280	2.5	132912.150	2.5
90.7981	28.01	-9.45	10115.660	2.5	120250.170	3.5	91.0716	26.02	-3.21	20051.100	6.0	129854.800	6.0
90.8002	28.02	-3.63	2269.600	2.0	112401.500	1.0	91.0734	26.02	-1.49	24558.800	5.0	134360.400	4.0
90.8027	28.01	-2.75	24835.930	.5	134964.780	1.5	91.0735	27.02	-8.09	15201.900	2.5	125003.300	2.5
90.8047	26.02	-1.52	116380.070	1.0	226506.540	1.0	91.0762	24.02	-1.83	355.800	3.0	110154.000	4.0
90.8128	26.02	-.70	30886.400	4.0	141002.990	4.0	91.0785	26.02	-2.03	25142.400	3.0	134937.840	2.0
90.8206	28.01	-9.58	10115.660	2.5	120222.890	1.5	91.0792	27.02	-.51	37021.000	3.5	146815.600	3.5
90.8234	7.00	-3.53	0.000	1.5	110103.834	1.5	91.0864	27.02	-1.08	22720.300	5.5	132506.200	5.5
90.8257	28.01	-1.92	23108.280	2.5	133209.300	2.5	91.0888	15.01	.40	469.000	2.0	110252.000	1.0
90.8260	15.02	-4.21	74944.600	2.5	185045.200	2.5	91.0912	25.01	-9.51	9472.970	2.0	119253.000	2.0
90.8287	26.02	-3.49	25142.400	3.0	135239.740	4.0	91.0912	25.01	-9.13	9472.970	2.0	119253.000	3.0
90.8366	28.01	-8.96	10115.660	2.5	120203.490	2.5	91.0953	13.01	-2.92	37453.800	1.0	147229.000	1.0
90.8371	26.02	-1.94	116419.390	2.0	226506.540	1.0	91.0959	26.02	-.43	20481.900	4.0	130256.270	5.0
90.8371	15.01	.15	164.800	1.0	110252.000	1.0	91.1071	28.01	-6.70	23108.280	2.5	132869.160	3.5
90.8401	28.01	-9.13	10115.660	2.5	120199.180	1.5	91.1189	28.01	-1.63	25036.380	2.5	134783.140	2.5
90.8406	12.02	-4.85	474655.000	2.0	584737.900	2.0	91.1191	26.02	-1.68	113584.200	2.0	223330.710	3.0
90.8414	28.01	-3.89	23108.280	2.5	133190.190	1.5	91.1202	26.02	-1.63	21699.900	3.0	131445.030	2.0
90.8419	26.02	-4.73	90423.680	2.0	200504.990	3.0	91.1214	26.02	-1.10	113584.200	2.0	223327.870	2.0
90.8443	12.02	-4.30	474655.000	2.0	584733.400	3.0	91.1222	26.02	-2.57	50295.200	3.0	160037.900	2.0
90.8448	26.02	-3.18	57221.700	4.0	167299.600	5.0	91.1259	28.01	-8.65	23108.280	2.5	132846.530	3.5
90.8460	14.01	-1.07	43107.970	2.5	153184.400	1.5	91.1259	26.02	-5.53	30088.840	3.0	139827.170	4.0
90.8486	27.02	-.58	16977.600	4.5	127050.800	4.5	91.1271	26.02	-2.11	30716.200	2.0	140453.100	3.0
90.8525	25.01	-7.82	0.000	3.0	110068.500	2.0	91.1367	26.02	-.97	113605.370	3.0	223330.710	3.0
90.8527	26.02	-2.22	120179.950	0.0	230248.260	1.0	91.1390	26.02	-3.08	113605.370	3.0	223327.870	2.0
90.8531	26.02	-1.72	116380.070	1.0	226447.880	2.0	91.1399	26.02	-1.47	113605.370	3.0	223326.760	4.0
90.8563	9.02	-3.43	387259.280	1.5	497323.250	2.5	91.1499	23.02	-5.97	145.500	2.5	109654.870	3.5
90.8582	28.01	-.77	23108.280	2.5	133169.920	3.5	91.1548	13.01	-4.26	37579.300	2.0	147282.800	1.0
90.8671	28.01	-2.26	10115.660	2.5	120166.520	1.5	91.1548	13.01	-3.09	37579.300	2.0	147282.800	2.0
90.8681	28.02	-4.83	23108.700	4.0	133158.300	3.0	91.1548	13.01	-2.34	37579.300	2.0	147282.800	3.0
90.8794	23.02	-5.63	145.500	2.5	110181.470	2.5	91.1612	26.02	-4.25	89907.850	4.0	199603.610	4.0
90.8796	7.00	-3.23	0.000	1.5	110035.720	.5	91.1616	26.02	-3.70	113635.340	4.0	223330.710	3.0
90.8799	26.02	-2.18	24940.900	4.0	134976.220	3.0	91.1621	15.02	-4.56	74944.600	2.5	184639.300	1.5
90.8804	26.02	-1.75	30716.200	2.0	140750.980	2.0	91.1648	26.02	-.89	113635.340	4.0	223326.760	4.0
90.8836	26.02	-1.67	90483.590	3.0	200514.460	4.0	91.1676	29.01	-2.65	26264.400	2.0	135952.550	2.0
90.8836	25.02	-2.55	26857.800	2.5	136888.700	1.5	91.1699	6.00	-2.51	10192.630	2.0	119878.000	1.0
90.8856	26.02	-1.42	116419.390	2.0	226447.880	2.0	91.1732	28.01	-2.98	10115.660	2.5	119796.980	2.5
90.8883	26.02	-.95	30725.800	1.0	140750.980	2.0	91.1744	16.02	.10	27159.100	0.0	136839.000	1.0
90.8884	27.02	-1.49	15201.900	2.5	125227.000	3.5	91.1775	25.02	-2.34	26824.400	5.5	136500.630	6.5
90.8922	27.02	-1.98	16977.600	4.5	126998.100	4.5	91.1793	26.02	-1.28	113635.340	4.0	223309.370	5.0
90.9048	26.02	-3.33	82001.730	2.0	192006.940	2.0	91.1801	26.02	-2.94	82333.920	3.0	192006.940	2.0
90.9133	28.01	-2.29	24788.200	1.5	134783.140	2.5	91.1820	12.02	-3.16	479456.000	1.0	589126.800	1.0
90.9169	27.02	-3.88	20918.500	.5	130909.000	1.5	91.1881	12.03	-4.03	604666.600	1.5	714330.000	.5
90.9178	26.02	-.92	20051.100	6.0	130040.560	7.0	91.1903	8.02	-4.00	293865.260	1.0	403526.000	1.0
90.9204	28.02	-4.60	23108.700	4.0	133095.000	3.0	91.1939	27.02	-2.29	22720.300	5.5	132376.800	6.5
90.9209	14.01	-.71	43107.970	2.5	153093.700	2.5	91.19						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
91.2738	16.01	-4.84	0.000	1.5	109560.500	5	91.5835	26.02	-2.06	113584.200	2.0	222774.220	2.0
91.2741	26.02	-3.72	120697.100	1.0	230257.150	2.0	91.5839	27.02	-2.74	23434.800	3.0	132623.800	3.5
91.2750	28.01	-8.20	10663.890	1.5	120222.890	1.5	91.5852	26.02	-2.59	113635.340	4.0	222823.330	4.0
91.2792	26.02	-1.19	20300.800	5.0	129854.800	6.0	91.5866	28.01	-8.52	23796.180	1.5	132982.510	1.5
91.2805	27.02	-1.99	20194.900	1.5	129747.300	2.5	91.5869	9.03	-1.85	452081.100	2.0	561267.000	1.0
91.2813	27.02	-7.79	17766.200	3.5	127317.700	3.5	91.5876	28.01	-2.20	24788.200	1.5	133973.330	2.5
91.2816	26.02	-4.15	120697.100	1.0	230248.260	1.0	91.5884	26.02	-3.31	121008.780	3.0	230192.860	3.0
91.2828	26.02	-1.87	115898.220	2.0	226447.880	2.0	91.5903	26.02	-1.80	113584.200	2.0	222766.040	3.0
91.2838	26.02	-2.92	119982.260	1.0	229530.670	1.0	91.5921	28.01	-1.00	8393.900	4.0	117573.680	4.5
91.2912	28.01	-8.40	10663.890	1.5	120203.490	2.5	91.5938	24.02	-7.36	355.800	3.0	109533.500	4.0
91.2913	24.02	-1.78	181.900	2.0	109721.400	3.0	91.5940	24.02	-2.69	59.900	1.0	109237.400	1.0
91.2939	26.02	-6.74	30088.840	3.0	139625.170	4.0	91.5962	7.01	-7.5	43.700	1.0	109223.500	0.0
91.2948	28.01	-8.57	10663.890	1.5	120199.180	1.5	91.5968	26.02	-1.01	113584.200	2.0	222758.280	2.0
91.2962	27.02	-2.39	23058.800	2.5	132592.400	1.5	91.5978	25.02	-3.68	29167.700	2.5	138340.620	2.5
91.2972	26.02	-5.58	113739.620	6.0	223272.060	6.0	91.5986	28.01	-1.37	25036.380	2.5	134208.300	2.5
91.2979	26.02	-2.08	116975.050	2.0	226506.540	1.0	91.6012	26.02	-1.24	113605.370	3.0	222774.220	2.0
91.2992	27.02	-2.95	841.200	3.5	110371.200	2.5	91.6012	7.01	-6.69	48.700	1.0	109217.600	2.0
91.3007	14.01	-5.54	42932.680	1.5	152460.900	2.5	91.6020	7.01	-8.3	48.700	1.0	109216.600	1.0
91.3028	28.01	-8.82	10663.890	1.5	120189.550	5	91.6029	27.02	-3.74	22720.300	5.5	131887.100	4.5
91.3044	27.02	-2.90	16977.600	4.5	126501.300	5.5	91.6029	2.01	-2.90	329182.203	0.0	438349.053	0.0
91.3131	23.02	-5.85	341.500	3.5	109854.870	3.5	91.6036	26.02	-3.49	113584.200	2.0	222750.230	3.0
91.3136	26.02	-1.56	19404.800	2.0	128917.510	2.0	91.6081	26.02	-1.70	113605.370	3.0	222765.970	4.0
91.3156	26.02	-2.61	116937.570	1.0	226447.880	2.0	91.6081	26.02	-1.00	113605.370	3.0	222766.040	3.0
91.3157	27.02	-3.36	1451.300	2.5	110961.500	1.5	91.6105	26.02	-1.32	113677.010	5.0	222834.770	6.0
91.3160	24.02	-2.25	59.900	1.0	109569.700	2.0	91.6124	26.02	-2.38	113677.010	5.0	222832.480	5.0
91.3185	28.01	-8.62	24788.200	1.5	134294.990	2.5	91.6137	26.02	-4.41	90423.680	2.0	199577.710	2.0
91.3220	28.01	-4.08	10663.890	1.5	120166.520	1.5	91.6143	26.02	-2.92	30356.200	6.0	139509.440	5.0
91.3250	27.02	-1.96	37316.500	2.5	146815.600	3.5	91.6146	26.02	-1.54	113605.370	3.0	222758.280	2.0
91.3250	14.01	-8.84	42932.680	1.5	152431.700	1.5	91.6148	27.02	-1.59	23434.300	4.5	132587.000	4.5
91.3279	28.01	-1.73	24788.200	1.5	134283.760	5	91.6201	26.02	-4.14	113677.010	5.0	222823.330	4.0
91.3324	26.02	-1.59	30356.200	6.0	139846.180	6.0	91.6201	24.02	-1.57	575.000	4.0	109721.400	3.0
91.3363	14.01	-1.65	42932.680	1.5	152418.200	5	91.6214	26.02	-1.98	113605.370	3.0	222750.230	3.0
91.3378	26.02	-1.98	116898.220	2.0	226381.910	3.0	91.6312	28.01	-4.29	10663.890	1.5	119796.980	2.5
91.3454	27.02	-1.57	24236.800	1.5	133711.400	2.5	91.6323	28.01	-7.35	23796.180	1.5	132927.970	1.5
91.3460	25.01	-8.46	0.000	3.0	109473.900	4.0	91.6332	26.02	-1.35	113635.340	4.0	222766.040	3.0
91.3465	26.02	-1.41	116975.050	2.0	226447.880	2.0	91.6333	26.02	-8.89	113635.340	4.0	222765.970	4.0
91.3499	29.01	-2.30	26264.400	2.0	135733.600	3.0	91.6347	26.02	-3.66	113605.370	3.0	222734.330	4.0
91.3511	25.02	-3.20	29167.700	2.5	138635.460	2.5	91.6373	27.02	-1.92	17766.200	3.5	126892.100	3.5
91.3522	28.01	-8.32	24788.200	1.5	134254.690	1.5	91.6375	12.02	-4.19	475502.900	1.0	584628.500	2.0
91.3563	28.01	-9.90	24788.200	1.5	134249.720	1.5	91.6384	2.01	-2.85	329182.203	0.0	438306.762	0.0
91.3576	15.01	0.05	8882.600	2.0	118342.600	1.0	91.6397	26.02	-2.67	25142.400	3.0	134265.400	2.0
91.3677	28.01	-1.04	24835.930	5	134283.760	5	91.6423	28.01	-2.20	25036.380	2.5	134156.200	1.5
91.3681	9.03	-1.90	451819.600	1.0	561267.000	1.0	91.6425	25.02	-1.15	26824.400	5.5	135944.080	4.5
91.3807	9.02	-2.56	355981.900	1.5	465414.140	2.5	91.6449	28.01	-1.28	23108.280	2.5	132225.150	1.5
91.3818	26.02	-4.13	120826.170	2.0	230257.150	2.0	91.6456	28.01	-8.39	23796.180	1.5	132912.150	2.5
91.3825	27.02	-2.45	23058.800	2.5	132489.000	2.5	91.6465	26.02	-1.67	113635.340	4.0	222750.230	3.0
91.3846	14.01	-2.25	43107.970	2.5	152535.600	3.5	91.6492	26.02	-4.34	90483.590	3.0	199595.300	3.0
91.3892	26.02	-2.98	120826.170	2.0	230248.260	1.0	91.6505	26.02	-4.24	114948.550	3.0	224058.700	4.0
91.3909	28.01	-6.65	24788.200	1.5	134208.300	2.5	91.6511	26.02	-2.01	113635.340	4.0	222744.790	5.0
91.3914	26.02	-1.23	24940.900	4.0	134360.400	4.0	91.6512	26.02	-1.43	49148.000	0.0	158257.370	1.0
91.3941	27.02	-4.17	1866.800	1.5	111283.100	5	91.6530	26.02	-3.80	30356.200	6.0	139463.360	5.0
91.3967	28.01	-3.08	23796.180	1.5	133209.300	2.5	91.6551	27.02	-3.43	17766.200	3.5	126870.900	2.5
91.3996	15.02	-1.17	0.000	5	109409.700	1.5	91.6564	26.02	-3.07	114948.550	3.0	224051.630	3.0
91.4019	26.02	-1.30	116975.050	2.0	226381.910	3.0	91.6597	25.02	-3.64	29241.400	1.5	138340.620	2.5
91.4022	26.02	-2.19	25142.400	3.0	134549.000	3.0	91.6599	26.02	-2.59	113635.340	4.0	222734.330	4.0
91.4126	25.02	-3.16	29241.400	1.5	138635.460	2.5	91.6631	26.02	-2.50	113739.620	6.0	222834.770	6.0
91.4127	28.01	-2.39	23796.180	1.5	133190.190	1.5	91.6631	14.03	-2.49	218266.860	5.0	327361.970	1.5
91.4179	24.02	-2.91	181.900	2.0	109569.700	2.0	91.6635	27.02	-4.12	1866.800	1.5	110961.500	1.5
91.4193	25.02	-2.25	39174.400	5.5	148560.500	4.5	91.6649	25.02	-7.75	26851.000	4.5	135944.080	4.5
91.4210	29.01	-3.52	21928.600	3.0	131312.700	3.0	91.6650	26.02	-4.16	113739.620	6.0	222832.480	5.0
91.4231	12.03	-4.31	604007.400	2.5	713389.000	2.5	91.6683	26.02	-1.32	113677.010	5.0	222765.970	4.0
91.4250	26.02	-1.63	117068.560	3.0	226447.880	2.0	91.6701	7.01	-1.16	130.800	2.0	109217.600	2.0
91.4292	24.02	-2.05	59.900	1.0	109434.200	2.0	91.6708	24.02	-2.28	59.900	1.0	109145.900	0.0
91.4307	8.02	-3.66	294001.600	2.0	403374.000	3.0	91.6710	7.01	-6.66	130.800	2.0	109216.600	1.0
91.4337	24.02	-6.37	575.000	4.0	109943.900	5.0	91.6716	26.02	-1.37	113739.620	6.0	222824.710	7.0
91.4344	28.01	-1.07	24788.200	1.5	134156.280	1.5	91.6723	25.02	-1.89	26859.900	3.5	135944.080	4.5
91.4355	26.02	-3.71	120826.170	2.0	230192.860	3.0	91.6752	26.02	-2.68	50412.300	2.0	159493.000	3.0
91.4364	24.02	-1.61	355.800	3.0	109721.400	3.0	91.6772	24.02	-2.67	355.800	3.0	109434.200	2.0
91.4470	14.01	-9.1	43107.970	2.5	152460.900	2.5	91.6780	2.01	-2.80	329182.203	0.0	438259.626	0.0
91.4489	26.02	-3.45	120179.950	0.0	229530.670	1.0	91.6826	27.02	-4.24	23434.300	4.5	132506.200	5.5
91.4541	28.01	-2.13	25036.380	2.5	134380.820	3.5	91.6861	26.02	-7.77	113677.010	5.0	222744.790	5.0
91.4714	14.01	-1.87	43107.970	2.5	152431.700	1.5	91.6867	25.02	-5.17	29167.700	2.5	138234.790	1.5
91.4743	28.01	-1.10	24835.930	5	134156.280	1.5	91.6872	28.01	-4.58	1506.940	1.5	110573.360	2.5
91.4801	26.02	-1.24	117068.560	3.0	226381.910	3.0	91.6895	26.02	-4.08	113635.340	4.0	222699.090	5.0
91.4805	12.02	-1.93	479456.000	1.0	588768.900	2.0	91.6949	26.02	-1.00	113677.010	5.0	222734.330	4.0
91.4845	26.02	-3.65	50184.900	2.0	159493.000	3.0	91.6964	24.02	-2.05	181.900	2.0	109237.400	1.0
91.4866	17.01	-1.67	996.400	0.0	110302.000	1.0	91.7018	28.01	-3.00	9330.040	3.5	118379.110	2.5
91.5042	27.02	-1.87	17766.200	3.5	127050.800	4.5	91.7025	26.02	-3.27	30716.200	2.0	139764.480	2.0
91.5112	26.02	-2.14	57221.700	4.0									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
91.7727	23.03	-2.57	42462.100	0.0	151427.000	1.0	92.1084	9.02	-2.85	356371.820	2.5	464939.500	2.5
91.7729	2.01	-2.69	329182.203	0.0	438146.832	0.0	92.1112	26.02	-2.75	115474.250	6.0	224038.730	5.0
91.7732	26.02	-2.72	30716.200	2.0	139680.470	3.0	92.1136	26.02	-1.03	121008.780	3.0	229570.360	2.0
91.7759	25.02	-6.02	29167.700	2.5	138128.800	1.5	92.1235	9.02	-1.60	356371.820	2.5	464921.740	3.5
91.7772	26.02	-4.91	113739.620	6.0	222699.090	5.0	92.1277	26.02	-3.97	50184.900	2.0	158729.890	3.0
91.7781	24.02	-7.18	575.000	4.0	109533.500	4.0	92.1296	28.01	-1.51	9330.040	3.5	118772.780	2.5
91.7788	9.02	-1.78	355981.900	1.5	464939.500	2.5	92.1408	13.01	-2.55	37579.300	2.0	146108.800	1.0
91.7796	25.02	-1.17	26824.400	5.5	135781.090	5.5	92.1418	8.02	-2.76	294001.600	2.0	402530.000	3.0
91.7841	28.02	-3.55	2269.600	2.0	111220.900	3.0	92.1440	26.02	-7.01	40999.870	2.0	149525.630	2.0
91.7842	26.02	-3.03	121241.670	4.0	230192.860	3.0	92.1465	27.02	-2.42	23058.800	2.5	131581.600	3.5
91.7871	26.02	-3.44	115110.920	4.0	224058.700	4.0	92.1567	2.01	-2.38	329182.203	0.0	437693.033	0.0
91.7930	26.02	-2.82	115110.920	4.0	224051.630	3.0	92.1596	8.00	-3.02	226.977	0.0	108734.400	1.0
91.7930	26.02	-1.16	30886.400	4.0	139827.170	4.0	92.1622	27.02	-5.20	1866.800	1.5	110371.200	2.5
91.7962	28.01	-2.65	25036.380	2.5	133973.330	2.5	92.1652	26.02	-1.52	121008.780	3.0	229509.560	3.0
91.7986	26.02	-1.12	113677.010	5.0	222611.160	5.0	92.1680	26.02	-2.12	57221.700	4.0	165719.200	4.0
91.7993	28.01	-7.13	23796.180	1.5	132729.480	2.5	92.1688	25.02	-3.88	110172.690	1.5	218669.260	1.5
91.7993	14.03	-2.21	218428.670	1.5	327361.970	2.5	92.1722	26.02	-3.62	29167.700	2.5	137660.240	3.5
91.7993	14.03	-3.16	218428.670	1.5	327361.970	1.5	92.1730	28.01	-1.62	25036.380	2.5	133528.020	3.5
91.8021	25.02	-1.20	26851.100	4.5	135781.090	5.5	92.1792	25.02	-4.66	110711.620	3.5	219195.950	4.5
91.8031	26.02	-2.33	113677.010	5.0	222605.820	4.0	92.1792	9.03	-2.11	451819.600	1.0	560304.000	2.0
91.8039	26.02	-4.72	115110.920	4.0	224038.730	5.0	92.1848	8.00	-4.23	0.000	2.0	108477.800	1.0
91.8059	26.02	-4.72	113677.010	5.0	222602.500	6.0	92.1848	8.00	-3.05	0.000	2.0	108477.800	2.0
91.8092	25.02	-3.92	29207.300	5	138128.800	1.5	92.1848	8.00	-2.30	0.000	2.0	108477.800	3.0
91.8106	27.02	-3.86	1451.300	2.5	110371.200	2.5	92.1862	15.02	-1.14	559.600	1.5	109035.700	5
91.8135	26.02	-4.99	82001.730	2.0	190918.170	3.0	92.1887	27.02	-3.02	17766.200	3.5	126239.400	4.5
91.8205	25.02	-4.68	26824.400	5.5	135732.500	4.5	92.1950	29.01	-1.72	22846.970	2.0	131312.700	3.0
91.8217	26.02	-3.31	30857.800	3.0	139764.480	2.0	92.1982	7.03	-4.57	67200.000	0.0	175661.987	0.0
91.8299	2.01	-2.64	329182.203	0.0	438079.196	0.0	92.2008	8.00	-1.52	15867.862	2.0	124326.779	3.0
91.8351	28.01	-2.77	13550.390	3.5	122441.220	4.5	92.2018	29.01	-1.78	21928.600	3.0	130386.400	2.0
91.8380	25.02	-2.89	29241.400	1.5	138128.800	1.5	92.2035	28.01	-9.90	29070.930	1.5	137526.730	2.5
91.8431	25.02	-0.03	26851.100	4.5	135732.500	4.5	92.2052	26.02	-1.39	50276.100	4.0	158729.890	3.0
91.8499	26.02	-2.55	120697.100	1.0	229570.360	2.0	92.2060	27.02	-1.59	23434.300	4.5	131887.100	4.5
91.8505	25.02	-1.05	26859.900	3.5	135732.500	4.5	92.2073	8.00	-1.74	15867.862	2.0	124319.175	2.0
91.8514	26.02	-2.50	113739.620	6.0	222611.160	5.0	92.2103	28.01	-4.57	10115.660	2.5	118563.390	3.5
91.8517	29.01	-3.52	26264.400	2.0	135135.600	1.0	92.2135	27.02	-2.16	16977.600	4.5	125421.600	4.5
91.8587	26.02	-1.22	113739.620	6.0	222602.500	6.0	92.2190	24.02	-0.71	355.800	3.0	108793.300	3.0
91.8611	26.02	-0.89	117521.910	4.0	226381.910	3.0	92.2214	26.02	-2.72	50295.200	3.0	158729.890	3.0
91.8678	25.02	-0.52	26857.800	2.5	135709.900	2.5	92.2241	25.02	-1.16	29167.700	2.5	137599.200	3.5
91.8685	26.02	-4.58	113739.620	6.0	222590.860	7.0	92.2263	28.01	-3.12	23796.180	1.5	132225.150	1.5
91.8695	25.02	-4.42	26859.900	3.5	135709.900	2.5	92.2330	28.01	-2.42	24788.200	1.5	133209.300	2.5
91.8695	15.02	-0.54	559.600	1.5	109409.700	1.5	92.2352	25.02	-3.74	110398.500	2.5	218816.970	2.5
91.8756	27.02	-3.13	23434.300	4.5	132277.100	3.5	92.2399	26.02	-3.34	121008.780	3.0	229421.730	4.0
91.8771	25.02	-4.49	26851.100	4.5	135692.170	3.5	92.2414	29.01	-1.49	26264.400	2.0	134675.600	2.0
91.8776	26.02	-1.22	49576.900	1.0	158417.310	2.0	92.2487	26.02	-1.14	82001.730	2.0	190404.310	3.0
91.8827	25.02	-1.20	26857.800	2.5	135692.170	3.5	92.2492	28.01	-3.73	24788.200	1.5	133190.190	1.5
91.8834	26.02	-1.63	120697.100	1.0	229530.670	1.0	92.2507	7.03	-0.67	67136.000	0.0	175536.261	0.0
91.8845	25.02	-4.15	26859.900	3.5	135692.170	3.5	92.2515	24.02	-1.21	59.900	1.0	108459.200	2.0
91.8906	27.02	-2.28	23058.800	2.5	131883.900	2.5	92.2543	26.02	-0.92	82001.730	2.0	190397.710	2.0
91.8926	26.02	-3.35	30857.800	3.0	139680.470	3.0	92.2581	28.02	-1.84	23108.700	4.0	131500.300	5.0
91.8950	2.01	-2.58	329182.203	0.0	438002.052	0.0	92.2581	26.02	-0.96	82001.730	2.0	190393.270	1.0
91.8966	27.02	-3.05	22720.300	5.5	131538.300	4.5	92.2607	25.02	-5.17	26857.800	2.5	135246.270	2.5
91.8988	7.02	-0.92	245701.700	1.5	354517.000	2.5	92.2625	25.02	-3.06	26859.900	3.5	135246.270	2.5
91.8996	28.01	-4.65	25036.380	2.5	133850.830	3.5	92.2636	8.00	-1.83	15867.862	2.0	124252.926	3.0
91.9054	28.01	-8.31	10115.660	2.5	118923.200	3.5	92.2661	26.02	-2.56	114948.550	3.0	223330.710	3.0
91.9150	9.02	-3.41	357479.350	1.5	466275.500	2.5	92.2685	26.02	-0.85	114948.550	3.0	223327.070	2.0
91.9168	26.02	-1.29	30886.400	4.0	139680.470	3.0	92.2695	26.02	-3.13	114948.550	3.0	223326.760	4.0
91.9168	26.02	-3.20	21462.200	4.0	130256.270	5.0	92.2697	27.02	-2.78	22720.300	5.5	131098.200	4.5
91.9177	13.01	-2.78	37392.000	0.0	146185.000	1.0	92.2747	2.01	-2.31	329182.203	0.0	437554.270	0.0
91.9232	12.02	-4.73	474053.200	3.0	582839.700	3.0	92.2882	8.00	-1.57	15867.862	2.0	124224.118	2.0
91.9260	27.02	-4.28	17766.200	3.5	126549.300	3.5	92.2887	27.02	-2.37	24236.800	1.5	132592.400	1.5
91.9267	28.01	-8.23	10115.660	2.5	118897.940	2.5	92.2899	28.01	-2.45	24835.930	5	133190.190	1.5
91.9338	9.02	-4.05	357479.350	1.5	466253.240	1.5	92.2925	8.00	-1.74	15867.862	2.0	124219.025	3.0
91.9381	26.02	-2.64	115289.910	5.0	224058.700	4.0	92.2995	26.02	-4.51	118163.560	2.0	226506.540	1.0
91.9393	26.02	-3.13	30857.800	3.0	139625.170	4.0	92.3008	27.02	-5.06	20194.900	1.5	128536.300	5
91.9398	26.02	-4.74	35803.700	2.0	144570.530	3.0	92.3021	9.02	-3.42	355981.900	1.5	464321.840	2.5
91.9444	28.01	-3.59	10115.660	2.5	118877.090	1.5	92.3042	26.02	-4.11	121919.740	3.0	230257.150	2.0
91.9469	28.01	-9.61	10115.660	2.5	118874.110	3.5	92.3045	7.03	-0.80	67200.000	0.0	175537.080	0.0
91.9550	26.02	-3.82	115289.910	5.0	224038.730	5.0	92.3072	27.02	-0.42	22720.300	5.5	131054.200	5.5
91.9589	26.02	-1.49	120826.170	2.0	229570.360	2.0	92.3105	27.02	-1.98	20194.900	1.5	128524.900	2.5
91.9604	27.02	-5.55	20194.900	1.5	128937.400	5	92.3130	28.01	-2.67	10115.660	2.5	118442.810	1.5
91.9635	26.02	-2.43	30886.400	4.0	139625.170	4.0	92.3152	28.01	-1.52	23796.180	1.5	132120.700	5
91.9672	8.00	-4.33	0.000	2.0	108734.400	1.0	92.3195	8.00	-3.05	158.265	1.0	108477.800	1.0
91.9672	8.00	-3.15	0.000	2.0	108734.400	2.0	92.3195	8.00	-2.57	158.265	1.0	108477.800	2.0
91.9672	8.00	-2.40	0.000	2.0	108734.400	3.0	92.3202	27.02	-4.55	16977.600	4.5	125296.200	5.5
91.9697	2.01	-2.52	329182.203	0.0	437913.666	0.0	92.3211	26.02	-1.11	50412.300	2.0	158729.890	3.0
91.9699	13.01	-2.91	37453.800	1.0	146185.000	1.0	92.3211	7.03	-0.10	67344.000	0.0	175661.600	0.0
91.9699	13.01	-2.43	37453.800	1.0	146185.000	2.0	92.3251	26.02	-1.84	35803.700	2.0	144116.640	3.0
91.9738	28.01	-1.13	23108.280	2.5	131834.940	2.5	92.3257	28.01	-2.88	13590.390	3.5	121862.570	3.5
91.9774	12.03	-3.85	604666.600	1.5									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
92.4058	26.02	-4.46	118163.560	2.0	226381.910	3.0	92.6692	25.02	-1.69	32383.700	2.5	140294.440	3.5
92.4058	24.02	-4.15	575.000	4.0	108793.300	3.0	92.6694	26.02	-4.90	122346.610	3.0	230257.150	2.0
92.4079	26.02	-3.92	115110.920	4.0	223326.760	4.0	92.6713	26.02	-1.23	30356.200	6.0	138264.470	6.0
92.4101	28.01	-8.61	24788.200	1.5	133001.470	5.0	92.6786	25.02	-3.64	32307.300	3.5	140207.090	2.5
92.4102	28.01	-8.71	10663.890	1.5	118877.090	1.5	92.6816	25.02	-7.79	29241.400	1.5	137137.690	1.5
92.4146	2.01	-2.23	329182.203	0.0	437390.213	0.0	92.6831	25.02	-4.89	110172.690	1.5	218067.190	2.5
92.4203	26.02	-1.89	118246.520	3.0	226447.880	2.0	92.6856	28.01	-8.74	25036.380	2.5	132927.970	1.5
92.4228	26.02	-3.64	115110.920	4.0	223309.370	5.0	92.6867	27.02	-1.76	20194.900	1.5	128085.200	2.5
92.4263	28.01	-9.00	24788.200	1.5	132982.510	1.5	92.6873	8.00	-2.78	226.977	0.0	108116.600	1.0
92.4274	7.03	-4.58	67344.000	0.0	175537.025	0.0	92.6901	27.02	-2.06	20918.500	5.0	128804.900	1.5
92.4312	17.01	-3.36	11653.500	2.0	119842.100	1.0	92.6939	28.01	-2.05	8393.900	4.5	116275.810	3.5
92.4314	24.02	-7.75	59.900	1.0	108248.300	1.0	92.6992	28.01	-7.12	25036.380	2.5	132912.150	2.5
92.4345	12.02	-4.46	474655.000	2.0	582839.700	3.0	92.7001	26.02	-5.56	114948.550	3.0	222823.330	4.0
92.4356	25.02	-1.19	26857.800	2.5	135041.250	1.5	92.7021	29.02	-8.06	32307.300	3.5	140179.740	2.5
92.4385	26.02	-1.31	121241.670	4.0	229421.730	4.0	92.7148	12.03	-4.97	604007.400	2.5	711865.000	1.5
92.4391	25.02	-2.37	32383.700	2.5	140563.030	3.5	92.7155	28.01	-2.10	10115.660	2.5	117972.470	3.5
92.4446	28.01	-5.34	25036.380	2.5	133209.300	2.5	92.7172	24.02	-4.40	20994.600	5.0	128849.400	4.0
92.4587	17.01	-2.20	11653.500	2.0	119809.900	3.0	92.7212	27.02	-6.65	32058.800	2.5	130909.000	1.5
92.4609	28.01	-3.45	25036.380	2.5	133190.190	1.5	92.7246	26.02	-2.60	122346.610	3.0	230192.860	3.0
92.4664	24.02	-3.35	20702.000	3.0	128849.400	4.0	92.7252	27.02	-1.70	23434.300	4.5	131279.900	3.5
92.4665	27.02	-2.78	23434.300	4.5	131581.600	3.5	92.7256	26.02	-4.23	50412.300	2.0	158257.370	1.0
92.4680	17.01	-1.91	11653.500	2.0	119799.000	2.0	92.7261	26.02	-2.51	24940.900	4.0	132785.360	4.0
92.4687	25.02	-4.08	110036.140	5.0	218180.900	1.5	92.7342	26.02	-5.58	115474.250	6.0	223309.370	5.0
92.4709	28.01	-1.27	13550.390	3.5	121692.550	4.5	92.7362	28.01	-6.66	25036.380	2.5	132869.160	3.5
92.4729	28.01	-7.83	24788.200	1.5	132927.970	1.5	92.7423	26.02	-2.35	114948.550	3.0	222774.220	2.0
92.4767	26.02	-2.26	118246.520	3.0	226381.910	3.0	92.7443	25.02	-2.38	32383.700	2.5	140207.090	2.5
92.4767	25.02	-4.06	110172.690	1.5	218307.980	2.5	92.7451	25.02	-2.03	32384.700	1.5	140207.090	2.5
92.4782	28.01	-7.78	25036.380	2.5	133169.920	3.5	92.7493	26.02	-1.71	114948.550	3.0	222766.040	3.0
92.4864	28.01	-8.88	24788.200	1.5	132912.150	2.5	92.7494	28.01	-7.13	14995.570	2.5	122812.970	3.5
92.4880	26.02	-1.58	50295.200	3.0	158417.310	2.0	92.7494	26.02	-2.71	114948.550	3.0	222765.970	4.0
92.4898	9.02	-3.19	356371.820	2.5	464491.890	3.5	92.7556	28.01	-8.61	25036.380	2.5	132846.530	3.5
92.4914	28.01	-4.30	8393.900	4.5	116512.060	3.5	92.7560	26.02	-2.04	114948.550	3.0	222756.280	2.0
92.4927	8.00	-4.08	0.000	2.0	108116.600	1.0	92.7629	26.02	-3.29	114948.550	3.0	222750.230	3.0
92.4927	8.00	-2.91	0.000	2.0	108116.600	2.0	92.7645	9.03	-5.56	452081.100	2.0	559881.000	1.0
92.4927	8.00	-2.16	0.000	2.0	108116.600	3.0	92.7663	26.02	-3.34	115474.250	6.0	223272.060	6.0
92.4944	25.02	-1.99	29167.700	2.5	137282.400	2.5	92.7664	9.02	-3.43	389525.550	1.5	497323.250	2.5
92.4976	28.01	-8.75	10663.890	1.5	118774.760	5.0	92.7669	26.02	-4.79	50184.900	2.0	157982.000	3.5
92.5002	25.02	-4.18	110398.500	2.5	218506.390	3.5	92.7678	25.02	-3.48	32383.700	2.5	140179.740	2.5
92.5006	26.02	-1.60	49576.900	1.0	157684.300	2.0	92.7686	25.02	-3.15	32384.700	1.5	140179.740	2.5
92.5035	27.02	-4.40	23434.300	4.5	131538.300	4.5	92.7689	25.02	-4.91	110711.620	3.5	218506.390	3.5
92.5040	24.02	-4.44	355.800	3.0	108459.200	2.0	92.7744	27.02	-3.97	16977.600	4.5	124765.900	5.5
92.5066	26.02	-2.48	24558.800	5.0	132659.170	4.0	92.7757	9.03	-2.26	452517.100	3.0	560304.000	2.0
92.5086	29.01	-2.82	22846.970	2.0	130945.000	1.0	92.7769	8.02	-4.17	294001.600	2.0	401787.000	2.0
92.5086	29.01	-3.39	22846.970	2.0	130945.000	2.0	92.7773	26.02	-1.25	118721.600	2.0	226506.540	1.0
92.5108	29.01	-5.66	26264.400	2.0	134359.900	1.0	92.7795	25.02	-4.16	110398.500	2.5	218180.900	1.5
92.5135	12.02	-4.85	474655.000	2.0	582747.300	2.0	92.7811	25.02	-4.46	26857.800	2.5	134638.390	1.5
92.5153	8.02	-1.56	306584.800	2.0	414675.000	2.0	92.7825	28.01	-2.38	10663.890	1.5	118442.810	1.5
92.5202	25.02	-3.52	111111.390	4.5	219195.950	4.5	92.7850	2.01	-2.07	329182.203	0.0	436958.244	0.0
92.5227	27.02	-1.42	22720.300	5.5	130801.900	4.5	92.7862	28.01	-5.06	13550.390	3.5	121325.090	2.5
92.5227	12.02	-3.55	474053.200	3.0	582134.800	4.0	92.8005	26.02	-1.11	42896.900	3.0	150654.900	3.0
92.5239	24.02	-1.54	20702.000	3.0	128782.200	3.0	92.8013	28.01	-1.72	10115.660	2.5	117872.780	2.5
92.5244	26.02	-6.69	82333.920	3.0	190413.570	4.0	92.8143	26.02	-4.02	116316.630	5.0	224058.700	4.0
92.5257	27.02	-1.07	24236.800	1.5	132314.900	5.0	92.8179	28.01	-6.89	0.000	2.5	107737.810	1.5
92.5305	26.02	-1.61	50184.900	2.0	158257.370	1.0	92.8261	25.02	-1.06	29207.300	5.0	136935.600	5.0
92.5313	26.02	-0.73	82846.590	4.0	190918.170	3.0	92.8279	26.02	-2.33	118721.600	2.0	226447.880	2.0
92.5323	26.02	-0.80	82333.920	3.0	190404.310	3.0	92.8290	14.01	-1.35	42932.680	1.5	150657.600	2.5
92.5357	24.02	-0.86	181.900	2.0	108248.300	1.0	92.8315	26.02	-2.81	116316.630	5.0	224038.730	5.0
92.5379	26.02	-1.22	82333.920	3.0	190397.710	2.0	92.8319	26.02	-4.51	115110.920	4.0	222832.480	5.0
92.5398	9.02	-1.79	357479.350	1.5	465541.000	5.0	92.8324	25.02	-1.69	29167.700	2.5	136888.700	1.5
92.5398	9.02	-1.57	357479.350	1.5	465541.000	1.5	92.8331	29.01	-3.68	26264.400	2.0	133984.600	3.0
92.5400	9.03	-1.04	451819.600	1.0	559881.000	1.0	92.8348	26.02	-1.37	24940.900	4.0	132659.170	4.0
92.5481	24.02	-4.59	20702.000	3.0	128753.900	2.0	92.8362	25.02	-3.93	110398.500	2.5	218115.150	3.5
92.5500	25.02	-4.26	110036.140	5.0	218085.880	5.0	92.8374	28.01	-5.00	10663.890	1.5	118379.110	2.5
92.5575	25.02	-1.67	29241.400	1.5	137282.400	2.5	92.8398	26.02	-1.65	115110.920	4.0	222823.330	4.0
92.5594	28.01	-1.83	23796.180	1.5	131834.940	2.5	92.8454	26.02	-1.63	50276.100	4.0	157982.000	3.0
92.5610	26.02	-0.66	115289.910	5.0	233326.760	4.0	92.8472	26.02	-1.34	24558.800	5.0	132262.660	6.0
92.5628	27.02	-3.08	16977.600	4.5	125012.400	4.5	92.8519	26.02	-2.33	30356.200	6.0	138054.590	5.0
92.5654	26.02	-2.33	118350.240	4.0	226381.910	3.0	92.8543	26.02	-4.96	118686.250	4.0	226381.910	3.0
92.5709	28.01	-7.94	23108.280	2.5	131133.580	2.5	92.8549	27.02	-2.78	15428.200	1.5	123123.100	1.5
92.5759	26.02	-3.39	115289.910	5.0	223309.370	5.0	92.8555	25.02	-1.80	29241.400	1.5	136935.600	5.0
92.5764	27.02	-3.23	20918.500	5.0	128937.400	5.0	92.8561	28.01	-1.70	8393.900	4.5	116087.380	4.5
92.5783	28.01	-7.81	23108.280	2.5	131124.960	3.5	92.8602	25.02	-3.55	110711.620	3.5	218400.400	3.5
92.5804	26.02	-9.65	30088.840	3.0	138103.120	4.0	92.8619	26.02	-2.59	50295.200	3.0	157982.000	3.0
92.5821	2.01	-2.15	329182.203	0.0	437194.443	0.0	92.8651	26.02	-1.81	20688.400	1.0	128371.530	0.0
92.5875	26.02	-1.47	24558.800	5.0	132564.710	5.0	92.8665	25.02	-0.92	29207.300	5.0	136888.700	1.5
92.5883	26.02	-1.26	118442.920	3.0	226447.880	2.0	92.8775	25.02	-3.50	110398.500	2.5	218067.190	2.5
92.5883	26.02	-2.59	50412.300	2.0	158417.310	2.0	92.8809	8.02	-0.94	293865.260	1.0	401530.000	2.0
92.5910	25.02	-4.90	110398.500	2.5	218400.400	3.5	92.8816	27.02	-2.29	23434.300	4.5	131098.200	4.5
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WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
92.9416	25.02	-3.69	111601.450	5.5	219195.950	4.5	93.2247	28.01	-7.65	23796.180	1.5	131063.850	.5
92.9443	26.02	-3.22	116467.410	4.0	224058.700	+0.0	93.2277	25.02	-3.27	111111.390	4.5	218375.610	4.5
92.9470	26.02	-3.25	115110.920	4.0	222699.090	5.0	93.2286	27.02	-2.28	20194.900	1.5	127458.100	1.5
92.9504	26.02	-2.67	116467.410	4.0	224051.630	3.0	93.2412	26.02	-2.59	122944.150	4.0	230192.860	3.0
92.9513	26.02	-2.88	116475.440	3.0	224058.700	4.0	93.2428	13.01	-2.58	37392.000	0.0	146638.900	1.0
92.9517	8.00	-3.87	0.000	2.0	107582.789	1.0	93.2434	27.02	-4.25	17766.200	3.5	125012.400	4.5
92.9517	8.00	-2.69	0.000	2.0	107582.789	2.0	93.2440	9.02	-4.73	390077.800	2.5	497323.250	2.5
92.9517	8.00	-1.94	0.000	2.0	107582.789	3.0	93.2442	26.02	-3.45	30857.800	3.0	138103.120	4.0
92.9541	26.02	-1.57	118867.870	1.0	226447.880	2.0	93.2447	9.02	-3.53	390077.800	2.5	497322.460	3.5
92.9548	26.02	-4.40	82846.590	4.0	190425.720	5.0	93.2450	12.02	-4.74	475502.900	1.0	582747.300	2.0
92.9568	25.02	-4.86	110398.500	2.5	217975.300	2.5	93.2487	26.02	-1.37	115474.250	6.0	222714.300	6.0
92.9574	26.02	-3.45	116475.440	3.0	224051.630	3.0	93.2513	27.02	-5.05	17766.200	3.5	125003.300	2.5
92.9616	26.02	-2.76	116467.410	4.0	224038.730	5.0	93.2620	26.02	-1.92	115474.250	6.0	222699.090	5.0
92.9630	26.02	-1.29	50412.300	2.0	157982.000	3.0	93.2629	26.02	-2.83	122346.610	3.0	229570.360	2.0
92.9642	26.02	-3.04	121941.290	4.0	229509.560	3.0	93.2631	28.01	-2.81	23108.280	2.5	130331.780	1.5
92.9653	26.02	-.91	82846.590	4.0	190413.570	4.0	93.2683	26.02	-3.16	21699.900	3.0	128917.510	2.0
92.9675	26.02	-4.89	122628.340	2.0	230192.860	3.0	93.2690	26.02	-1.65	30886.400	4.0	138103.120	4.0
92.9680	28.01	-.90	9330.040	3.5	116893.980	2.5	93.2734	27.02	-1.13	841.200	3.5	108052.900	2.5
92.9698	29.01	-2.92	26264.400	2.0	133826.200	2.0	93.2758	28.01	-2.63	10663.890	1.5	117872.780	2.5
92.9708	25.02	-2.45	32383.700	2.5	139944.400	3.5	93.2768	29.01	-3.66	23998.220	1.0	131206.000	0.0
92.9733	26.02	-1.65	82846.590	4.0	190404.310	3.0	93.2806	28.02	-5.50	23108.700	4.0	130312.100	4.0
92.9755	25.02	-.64	29241.400	1.5	136796.610	2.5	93.2850	12.03	-3.77	604666.600	1.5	711865.000	1.5
92.9795	25.02	-2.34	32307.300	3.5	139857.840	4.5	93.2898	12.02	-4.95	477435.700	2.0	584628.500	2.0
92.9803	14.01	-.98	43107.970	2.5	150657.600	2.5	93.2901	26.02	-3.33	115642.230	7.0	222834.770	6.0
92.9831	28.01	-.79	10115.660	2.5	117662.110	1.5	93.2934	28.01	-2.23	25036.380	2.5	132225.150	1.5
92.9845	26.02	-.42	115289.910	5.0	222834.770	6.0	93.2938	29.01	-1.04	21928.600	3.0	129116.900	3.0
92.9864	26.02	-1.68	115289.910	5.0	222832.480	5.0	93.2965	13.01	-2.71	37453.800	1.0	144638.900	1.0
92.9891	29.01	-3.82	22846.970	2.0	130386.400	2.0	93.2965	13.01	-2.23	37453.800	1.0	144638.900	2.0
92.9943	26.02	-3.24	115289.910	5.0	222823.330	4.0	93.2988	26.02	-1.59	115642.230	7.0	222824.710	7.0
92.9957	28.01	-5.13	1506.940	1.5	109038.840	1.5	93.2992	28.01	-1.01	9330.040	3.5	116512.060	3.5
92.9972	27.02	-1.09	0.000	4.5	107530.100	3.5	93.3073	25.01	-4.28	0.000	3.0	107172.800	3.0
92.9987	8.02	-1.67	294001.600	2.0	401530.000	2.0	93.3113	26.02	-2.10	30886.400	4.0	138054.590	5.0
93.0087	26.02	-.50	25142.400	3.0	132659.170	4.0	93.3133	23.02	-5.05	0.000	1.5	107165.900	1.5
93.0147	14.01	-1.86	42932.680	1.5	150442.600	1.5	93.3158	26.02	-1.56	122346.610	3.0	229509.560	3.0
93.0193	27.02	-1.56	20918.500	.5	128423.100	1.5	93.3221	26.02	-.21	115642.230	7.0	222797.970	8.0
93.0230	28.01	-3.47	13550.390	3.5	121050.660	2.5	93.3241	26.02	-3.18	116898.220	2.0	224051.630	3.0
93.0230	26.02	-1.15	115110.920	4.0	222611.160	5.0	93.3254	26.02	-4.32	24558.800	5.0	131710.790	5.0
93.0238	26.02	-2.59	50184.900	2.0	157684.300	2.0	93.3339	28.01	-1.76	0.000	2.5	107142.210	1.5
93.0254	14.01	-2.05	42824.350	.5	150321.900	.5	93.3367	26.02	-2.63	24940.900	4.0	132079.910	3.0
93.0277	26.02	-1.22	115110.920	4.0	222605.820	4.0	93.3374	25.02	-4.31	112057.800	3.5	219195.950	4.5
93.0282	26.02	-2.14	115110.920	4.0	222605.240	3.0	93.3384	16.05	-.04	0.000	.5	107137.000	1.5
93.0284	28.01	-.56	9330.040	3.5	116824.150	2.5	93.3385	26.02	-1.91	115474.250	6.0	222611.160	5.0
93.0339	8.00	-3.55	15867.862	2.0	123355.512	1.0	93.3425	13.01	-3.08	37392.000	0.0	144524.300	1.0
93.0341	2.01	-1.97	329182.203	0.0	436669.673	0.0	93.3448	2.01	-1.87	329182.203	0.0	436311.898	0.0
93.0360	25.02	-3.27	111111.390	4.5	218596.690	5.5	93.3461	26.02	-.93	115474.250	6.0	222602.500	6.0
93.0402	26.02	-3.17	121941.290	4.0	229421.730	4.0	93.3488	25.02	-2.98	26824.400	5.5	133949.540	4.5
93.0415	9.02	-2.83	360348.280	.5	467827.160	1.5	93.3489	27.02	-1.08	23058.800	2.5	130183.800	3.5
93.0426	28.01	-8.74	29070.930	1.5	136548.550	2.5	93.3525	26.02	-6.09	30088.840	3.0	137209.730	4.0
93.0440	26.02	-1.97	115289.910	5.0	222765.970	4.0	93.3539	28.01	-7.60	23108.280	2.5	130227.520	2.5
93.0474	26.02	-4.22	121949.620	5.0	229421.730	4.0	93.3552	9.03	-1.57	538397.200	2.0	645515.000	3.0
93.0477	26.02	-3.35	30716.200	2.0	138187.930	3.0	93.3553	28.01	-7.36	23108.280	2.5	130225.870	3.5
93.0572	27.02	-2.66	17766.200	3.5	125227.000	3.5	93.3562	26.02	-1.15	115474.250	6.0	222590.860	7.0
93.0576	28.01	-8.78	29070.930	1.5	136531.260	1.5	93.3701	28.01	-7.68	23108.280	2.5	130208.890	3.5
93.0616	26.02	-7.84	30088.840	3.0	137544.600	2.0	93.3707	28.01	-1.96	10663.890	1.5	117763.910	1.5
93.0623	26.02	-1.33	115289.910	5.0	222744.790	5.0	93.3720	25.02	-2.05	26851.100	4.5	133949.540	4.5
93.0698	28.01	-9.41	29070.930	1.5	136517.200	.5	93.3761	25.02	-3.88	111883.600	2.5	218977.340	3.5
93.0714	26.02	-1.85	115289.910	5.0	222734.330	4.0	93.3779	12.02	-4.55	478374.500	1.0	585466.200	1.0
93.0760	26.02	-5.10	30088.840	3.0	137527.920	4.0	93.3797	25.02	-2.30	26859.900	3.5	133949.540	4.5
93.0778	28.01	-2.19	24788.200	1.5	132225.150	1.5	93.3803	28.01	-8.50	23108.280	2.5	130197.230	1.5
93.0848	8.00	-4.61	15867.862	2.0	123296.777	2.0	93.3862	28.01	-1.79	0.000	2.5	107082.210	2.5
93.0859	26.02	-3.94	122829.550	3.0	230257.150	2.0	93.3915	28.01	-7.43	23108.280	2.5	130184.390	2.5
93.0886	8.00	-2.69	158.265	1.0	107582.789	1.0	93.3924	26.02	-1.78	122346.610	3.0	229421.730	4.0
93.0886	8.00	-2.21	158.265	1.0	107582.789	2.0	93.3950	26.02	-1.34	115642.230	7.0	222714.300	6.0
93.0887	26.02	-3.08	115289.910	5.0	222714.300	6.0	93.3964	13.01	-2.60	37453.800	1.0	144524.300	1.0
93.0918	9.02	-2.51	360348.280	.5	467769.110	.5	93.4006	28.01	-7.69	23108.280	2.5	130174.030	1.5
93.0976	26.02	-4.13	122843.030	1.0	230257.150	2.0	93.4052	23.02	-4.25	0.000	1.5	107060.010	.5
93.1020	25.02	-2.96	110398.500	2.5	217807.570	1.5	93.4053	26.02	-4.33	21857.200	2.0	128917.510	2.0
93.1034	26.02	-3.33	30356.200	6.0	137763.700	5.0	93.4059	13.01	-3.89	37579.300	2.0	144638.900	1.0
93.1068	25.02	-3.88	110711.620	3.5	218115.150	3.5	93.4059	13.01	-2.71	37579.300	2.0	144638.900	2.0
93.1123	26.02	-1.73	21208.500	0.0	128605.650	1.0	93.4059	13.01	-1.97	37579.300	2.0	144638.900	3.0
93.1142	25.02	-3.86	111111.390	4.5	218506.390	3.5	93.4128	28.01	-8.97	29070.930	1.5	136122.610	2.5
93.1167	9.02	-2.12	360435.080	1.5	467827.160	1.5	93.4171	28.01	-1.42	24788.200	1.5	131834.940	2.5
93.1192	28.01	-1.32	24835.930	.5	132225.150	1.5	93.4227	25.02	-3.20	111776.600	1.5	218816.970	2.5
93.1192	14.01	-1.35	42932.680	1.5	150321.900	.5	93.4319	27.02	-3.44	20194.900	1.5	127224.700	.5
93.1193	26.02	-1.93	50295.200	3.0	157684.300	2.0	93.4401	23.02	-4.43	145.900	2.5	107165.900	1.5
93.1339	28.01	-5.70	23108.280	2.5	130480.550	3.5	93.4491	26.02	-2.42	116316.630	5.0	223326.760	4.0
93.1380	27.02	-1.36	23434.300	4.5	130801.900	4.5	93.4547	25.02	-4.94	111111.390	4.5	218115.150	3.5
93.1417	26.02	-3.22	122829.550	3.0	230192.860	3.0	93.4595	28.01	-1.12	10663.890	1.5	117662.110	1.5
93.1441	26.02	-1.46	115474.250	6.0									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
93.5450	25.02	-5.07	26851.100	4.5	133751.500	3.5
93.5509	25.02	-3.77	26857.800	2.5	133751.500	3.5
93.5518	25.02	-4.80	111776.600	1.5	218669.260	1.5
93.5523	15.01	-4.38	469.000	2.0	107361.100	3.0
93.5527	25.02	-3.02	26859.900	3.5	133751.500	3.5
93.5580	25.02	-1.42	26851.100	4.5	133736.640	5.5
93.5618	26.02	-1.50	122628.340	2.0	229509.560	3.0
93.5631	28.01	-4.62	23108.280	2.5	129988.050	2.5
93.5652	26.02	-3.23	30886.400	4.0	137763.700	5.0
93.5699	27.02	-2.02	22720.300	5.5	129592.300	4.5
93.5743	28.01	-1.52	14995.570	2.5	121862.570	3.5
93.5810	26.02	-1.29	116467.410	4.0	223326.760	4.0
93.5845	26.02	-1.73	116475.440	3.0	223330.710	3.0
93.5870	26.02	-2.80	116475.440	3.0	223327.870	2.0
93.5880	26.02	-1.22	116475.440	3.0	223326.760	4.0
93.5896	29.01	-1.11	21928.600	3.0	128778.100	4.0
93.5914	26.02	-3.50	30725.800	1.0	137573.200	0.0
93.5933	28.02	-5.12	23108.700	4.0	129953.900	3.0
93.5936	26.02	-2.95	30716.200	2.0	137561.100	1.0
93.5957	9.02	-4.11	357479.350	1.5	464321.840	2.5
93.5962	26.02	-1.98	116467.410	4.0	223309.370	5.0
93.6017	27.02	-3.34	22720.300	5.5	129556.000	5.5
93.6020	26.02	-3.56	30725.800	1.0	137561.100	1.0
93.6056	14.02	-1.61	142943.740	3.0	249774.980	4.0
93.6058	14.02	-1.68	142943.740	3.0	249774.700	3.0
93.6060	14.02	-3.22	142943.740	3.0	249774.480	2.0
93.6077	14.02	-1.77	142945.840	2.0	249774.700	3.0
93.6079	14.02	-1.68	142945.840	2.0	249774.480	2.0
93.6081	26.02	-2.57	30716.200	2.0	137544.600	2.0
93.6100	14.02	-1.94	142948.250	1.0	249774.480	2.0
93.6140	25.02	-2.85	111883.600	2.5	218705.250	2.5
93.6165	26.02	-4.15	30725.800	1.0	137544.600	2.0
93.6190	28.01	-1.72	8393.900	4.5	115209.850	3.5
93.6252	26.02	-4.09	119697.640	2.0	226506.540	1.0
93.6288	28.01	-2.83	14995.570	2.5	121800.340	1.5
93.6342	28.01	-1.58	25036.380	2.5	131834.940	2.5
93.6375	9.03	-1.62	538397.200	2.0	645192.000	2.0
93.6394	27.02	-4.46	20194.900	1.5	126987.600	1.5
93.6397	26.02	-3.69	123455.920	0.0	230248.260	1.0
93.6518	28.01	-8.78	29070.930	1.5	135849.410	2.5
93.6520	28.01	-1.34	10115.660	2.5	116893.980	2.5
93.6555	28.01	-2.56	23796.180	1.5	130570.420	4.5
93.6556	25.02	-4.50	111601.450	5.5	218375.610	4.5
93.6594	26.02	-1.55	24940.900	4.0	131710.790	5.0
93.6629	8.00	-3.71	0.000	2.0	106765.815	1.0
93.6629	8.00	-2.64	0.000	2.0	106765.815	2.0
93.6629	8.00	-2.13	0.000	2.0	106765.815	3.0
93.6637	27.02	-1.46	0.000	4.5	106764.900	4.5
93.6688	25.02	-3.85	112057.800	3.5	218816.970	2.5
93.6704	28.01	-1.23	9330.040	3.5	116087.380	4.5
93.6755	8.00	-4.76	0.000	2.0	106751.499	1.0
93.6755	8.00	-3.04	0.000	2.0	106751.486	2.0
93.6755	8.00	-1.97	0.000	2.0	106751.470	3.0
93.6766	26.02	-3.42	119697.640	2.0	226447.880	2.0
93.6768	25.01	-4.22	0.000	3.0	106750.000	2.0
93.6773	27.02	-3.69	23434.300	4.5	130183.800	3.5
93.6782	26.02	-3.92	21857.200	2.0	128605.650	1.0
93.6816	9.02	-4.77	357479.350	1.5	464223.930	1.5
93.6849	26.02	-1.95	122829.550	3.0	229570.360	2.0
93.6932	26.02	-1.69	35803.700	2.0	142535.070	2.0
93.6967	26.02	-1.56	122843.030	1.0	229570.360	2.0
93.7133	28.01	-1.95	10115.660	2.5	116824.150	2.5
93.7135	26.02	-8.55	30088.840	3.0	136797.050	3.0
93.7143	25.01	-6.16	0.000	3.0	106707.300	4.0
93.7147	26.02	-3.74	30716.200	2.0	137423.000	3.0
93.7163	26.02	-8.72	30088.840	3.0	136793.820	2.0
93.7170	26.02	-4.43	123552.950	1.0	230257.150	2.0
93.7189	25.02	-2.22	29167.700	2.5	135869.760	3.5
93.7263	25.02	-1.19	29167.700	2.5	135861.320	1.5
93.7284	25.02	-2.25	29167.700	2.5	135858.960	2.5
93.7305	27.02	-1.73	841.200	3.5	107530.100	3.5
93.7308	27.02	-2.28	23058.800	2.5	129747.300	2.5
93.7316	26.02	-2.83	122843.030	1.0	229530.670	1.0
93.7323	26.02	-2.58	30857.800	3.0	137544.600	2.0
93.7345	26.02	-2.26	119697.640	2.0	226381.910	3.0
93.7383	26.02	-2.28	122829.550	3.0	229509.560	3.0
93.7393	2.01	-1.76	329182.203	0.0	435861.045	0.0
93.7414	16.01	-1.12	14853.000	1.5	121529.490	2.5
93.7418	27.02	-2.67	20194.900	1.5	126870.900	2.5
93.7425	28.01	-8.95	29070.930	1.5	135746.130	1.5
93.7425	16.01	-1.30	14853.000	1.5	121528.200	1.5
93.7437	28.01	-2.62	23108.280	2.5	129782.070	3.5
93.7451	27.02	-2.11	24236.800	1.5	130909.000	1.5
93.7457	26.02	-3.21	122898.840	2.0	229570.360	2.0
93.7470	26.02	-3.06	30857.800	3.0	137527.920	4.0
93.7551	9.03	-1.13	538854.100	4.0	645515.000	3.0
93.7585	26.02	-2.21	34812.400	0.0	141469.450	1.0
93.7593	27.02	-1.04	37021.000	3.5	143677.100	3.5
93.7611	25.02	-1.45	29207.300	5.5	135861.320	1.5
93.7655	26.02	-1.81	122921.370	1.0	229570.360	2.0
93.7663	27.02	-1.27	23058.800	2.5	129706.900	3.5
93.7669	25.02	-4.17	112057.800	3.5	218705.250	2.5
93.7693	16.01	-1.10	14884.800	2.5	121529.490	2.5
93.7705	16.01	-1.27	14884.800	2.5	121528.200	1.5
93.7721	26.02	-1.91	30886.400	4.0	137527.920	4.0
93.7726	29.01	-2.15	21928.600	3.0	128569.600	2.0
93.7769	26.02	-6.65	40999.870	2.0	147635.950	3.0
93.7806	26.02	-2.27	122898.840	2.0	229530.670	1.0
93.7811	25.02	-3.50	26824.400	5.5	133455.640	5.5
93.7820	29.01	-4.75	21928.600	3.0	128558.900	3.0
93.7824	9.02	-2.23	360348.280	5.5	466978.150	1.5
93.7834	26.02	-2.73	42896.900	3.0	149525.630	2.0
93.7886	25.02	-3.65	111883.600	2.5	218506.530	3.5
93.7906	28.01	-2.56	0.000	2.5	106620.530	3.5
93.7911	25.02	-1.34	29241.400	1.5	135861.320	1.5
93.7932	25.02	-3.09	29241.400	1.5	135858.960	2.5
93.7956	26.02	-1.75	40999.870	2.0	147614.650	2.0
93.7992	26.02	-1.49	122898.840	2.0	229509.560	3.0
93.8004	26.02	-2.42	122921.370	1.0	229530.670	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
93.8020	8.00	-2.54	158.265	1.0	106765.815	1.0
93.8020	8.00	-2.17	158.265	1.0	106765.815	2.0
93.8030	28.01	-1.55	8393.900	4.5	115000.250	3.5
93.8046	25.02	-1.67	26851.100	4.5	133455.640	5.5
93.8072	27.02	-1.90	1451.300	2.5	108052.900	2.5
93.8118	25.02	-4.37	111776.600	1.5	218373.000	1.5
93.8137	9.03	-1.41	538597.800	3.0	645192.000	2.0
93.8146	8.00	-6.83	158.265	1.0	106751.506	0.0
93.8146	8.00	-3.53	158.265	1.0	106751.499	1.0
93.8146	8.00	-2.55	158.265	1.0	106751.486	2.0
93.8155	26.02	-1.31	122829.550	3.0	229421.730	4.0
93.8245	28.01	-9.27	29070.930	1.5	135652.930	1.5
93.8391	26.02	-1.46	122944.150	4.0	229509.560	3.0
93.8393	26.02	-2.33	30857.800	3.0	137423.000	3.0
93.8411	25.02	-2.10	110398.500	2.5	216961.620	3.5
93.8415	27.02	-1.32	24236.800	1.5	130799.500	2.5
93.8439	26.02	-3.20	123697.180	2.0	230257.150	2.0
93.8439	25.02	-2.44	110711.620	3.5	217271.590	4.5
93.8441	28.01	-8.89	29070.930	1.5	135630.630	2.5
93.8469	26.02	-9.76	40999.870	2.0	147556.450	1.0
93.8498	20.02	-1.54	279353.640	1.0	385906.900	2.0
93.8503	28.01	-8.92	29070.930	1.5	135623.590	1.5
93.8517	26.02	-3.32	123697.180	2.0	230248.260	1.0
93.8535	28.01	-9.19	29070.930	1.5	135619.910	1.5
93.8546	9.02	-1.95	360435.080	1.5	466982.860	2.5
93.8552	28.01	-9.05	29070.930	1.5	135618.080	2.5
93.8588	9.02	-2.91	360435.080	1.5	466978.150	1.5
93.8595	25.02	-2.47	29167.700	2.5	135709.900	2.5
93.8614	25.02	-1.96	110172.690	1.5	216712.730	2.5
93.8618	27.02	-1.47	20918.500	5.5	127458.100	1.5
93.8625	8.00	-2.42	226.977	0.0	106765.815	1.0
93.8643	26.02	-3.73	117521.910	4.0	224058.700	4.0
93.8645	27.02	-1.98	1866.800	1.5	108403.400	1.5
93.8645	26.02	-3.74	30886.400	4.0	137423.000	3.0
93.8653	28.01	-3.01	23796.180	1.5	130331.780	1.5
93.8691	25.02	-3.05	111776.600	1.5	218307.980	2.5
93.8705	26.02	-2.65	117521.910	4.0	224051.630	3.0
93.8720	28.01	-9.59	29070.930	1.5	135599.000	5.5
93.8740	25.01	-7.53	0.000	3.0	106525.800	3.0
93.8751	25.02	-5.03	29167.700	2.5	135692.170	3.5
93.8751	8.00	-3.38	226.977	0.0	106751.499	1.0
93.8753	26.02	-3.58	119982.260	1.0	226506.540	1.0
93.8756	26.02	-8.20	30088.840	3.0	136612.780	4.0
93.8807	26.02	-2.99	116316.630	5.0	222834.770	6.0
93.8819	26.02	-3.41	117521.910	4.0	224038.730	5.0
93.8819	25.02	-3.61	111883.600	2.5	218400.400	3.5
93.8827	26.02	-4.04	116316.630	5.0	222832.480	5.0
93.8886	26.02	-4.16	35803.700	2.0	142312.900	3.0
93.8905	17.03	-4.91	13767.000	2.0	120274.000	1.0
93.8908	26.02	-2.30	123750.390	3.0	230257.150	2.0
93.9004	25.02	-2.01	110036.140	5.0	216531.990	1.0
93.9005	26.02	-4.63	123697.180	2.0	230192.860	3.0
93.9061	25.02	-3.59	111883.600	2.5	218373.000	1.5
93.9062	27.02	-1.18	0.000	4.5	106489.200	3.5
93.9064	17.03	-3.23	13767.000	2.0	120258.000	2.0
93.9074	9.02	-4.36	390834.600	2.5	497322.460	3.5
93.9165	26.02	-1.04	122944.150	4.0	229421.730	4.0
93.9233	15.04	-1.82	304161.300	5.0	410631.900	1.0
93.9245	25.02	-4.57	29241.400	1.5	135709.900	2.5
93.9270	26.02	-2.97	119982.260	1.0	226447.880	2.0
93.9276	28.01	-1.13	8393.900	4.5	118458.880	5.5
93.9313	28.01	-4.97	14995.570	2.5	121456.320	1.5
93.9391	25.02	-1.19	26824.400	5.5	133276.400	1.5
93.9414	26.02	-3.93	116316.630	5.0	222765.970	4.0
93.9421	25.02	-3.18	112057.800	3.5	218506.900	3.5
93.9475	26.02	-1.66	123750.390	3.0	230192.860	3.0
93.9479	28.01	-7.99	29070.930	1.5	135512.920	2.5
93.9563	26.02	-1.33	116898.220	2.0	223330.710	2.0
93.9573	28.01	-7.01	23796.180	1.5	130227.520	2.5
93.9588	26.02	-1.89	116898.220	2.0	223327.870	2.0
93.9601	26.02	-2.63	116316.630	5.0	222744.790	5.0
93.9626	25.02	-1.50	26851.100	4.5	133276.400	4.5
93.9634	25.02	-4.37	111883.600	2.5	218307.980	2.5
93.9652	28.01	-9.23	29070.930	1.5	135493.260	1.5
93.9693	26.02	-1.86	116316.630	5.0	222734.330	4.0
93.9704	25.02	-1.64	26859.900	3.5	133276.400	4.5
93.9812	25.02	-3.57	111776.600	1.5	218180.900	1.5
93.9840	28.01	-7.06	23796.180	1.5	130197.230	1.5
93.9870	26.02	-1.94	116316.630	5.0	222714.300	6.0
93.9878	26.02	-2.40	116380.070	1.0	222776.890	1.0
93.9881	28.01	-2.60	10115.660	2.5	116512.060	3.5
93.9901	26.02	-2.70	116380.070	1.0	222774.220	2.5
93.9932	28.01	-8.70	29070.930	1.5	135461.550	2.5
93.9935	26.02	-1.33	116937.570	1.0	223327.870	2.0
93.9936	28.01	-5.50	14995.570	2.5	121385.800	1.5
93.9954	28.01	-7.61	23796.180	1.5	130184.390	2.5
93.9954	29.01	-4.41	23998.220	1.0	130386.400	2.0
93.9963	25.02	-1.47	110036.140	5.0	216423.250	5.0
94.0005	26.02	-1.68	116316.630	5.0	222699.090	5.0
94.0042	26.02	-2.50	116380.070	1.0	222758.280	2.0
94.0045	28.01	-7.80	23796.180	1.5	130174.030	1.5
94.0082	25.01	-7.52	0.000	3.0	106373.700	2.0
94.0121	28.01	-5.63	0.000	2.5	106369.300	1.5
94.0158	26.02	-2.11	116467.410	4.0	222832.480	5.0
94.0173	12.02	-4.33	478374.500	1.0	584737.900	1.0
94.0198	27.02	-2.37	37316.500	2.5	143677.100	3.5
94.0209	25.02	-1.31	110172.690	1.5	216531.990	1.5
94.0215	15.01	-3.50	21576.200	0.0	127934.900	1.0
94.0225	26.02	-2.29	116419.390	2.0	222776.890	1.0
94.0239	26.02	-3.26	116467.410	4.0	222823.330	4.0
94.0241	26.02	-3.30	116975.050	2.0	223330.710	3.0
94.0249	26.02	-1.81	116419.390	2.0	222774.220	2.0
94.0267	26.02	-3.94	116975.050	2.0	223327.870	2.0
94.0274	26.02	-2.59	30857.800	3.0	137209.730	4.0
94.0277	28.01	-8.15	23796.180	1.5	130147.870	5.0
94.0283	25.02	-3.94	111776.600	1.5	218127.590	5.0
94.0310	26.02	-3.94	116475.440	3.0	222823.330	4.0
94.0321	26.02	-1.86	116419.390	2.0	222766.040	2.0
94.0332	28.01	-7.51	24788.200	1.5	131133.580	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
94.0353	25.02	-1.98	29167.700	2.5	135510.700	2.5	94.2818	9.02	-4.19	391257.420	2.5	497322.460	3.5
94.0390	26.02	-2.74	116419.390	2.0	222758.280	2.0	94.2886	25.02	-4.53	112057.800	3.5	218115.150	3.5
94.0461	26.02	-2.04	116419.390	2.0	222750.230	3.0	94.2903	25.02	-4.90	32307.300	3.5	138362.800	3.5
94.0473	28.01	-4.68	14995.570	2.5	121325.090	2.5	94.2906	28.01	-3.53	14995.570	2.5	121050.660	2.5
94.0485	25.02	-1.90	32307.300	3.5	138635.460	2.5	94.2978	28.01	-2.89	14995.570	2.5	121042.570	1.5
94.0499	26.02	-5.00	120179.950	0.0	226506.540	1.0	94.3003	16.01	-4.24	0.000	1.5	106044.160	0.5
94.0527	26.02	-2.99	30886.400	4.0	137209.730	4.0	94.3041	25.02	-1.91	26857.800	2.5	132897.740	2.5
94.0561	23.02	-6.51	583.800	4.5	106903.350	5.5	94.3046	28.01	-9.14	25036.380	2.5	131075.780	1.5
94.0601	28.01	-7.74	24788.200	1.5	131103.180	2.5	94.3060	25.02	-1.85	26859.900	3.5	132897.740	2.5
94.0608	25.02	-1.21	110398.500	2.5	216712.730	2.5	94.3100	25.02	-2.88	32307.300	3.5	138340.620	2.5
94.0631	28.01	-2.35	29070.930	1.5	135382.530	1.5	94.3121	25.02	-3.94	111776.600	1.5	217807.570	1.5
94.0652	25.02	-4.46	111776.600	1.5	218085.880	0.5	94.3137	26.02	-8.48	30088.840	3.0	136117.940	2.0
94.0679	27.02	-3.10	20918.500	4.5	127224.700	0.5	94.3183	25.02	-2.21	112645.310	0.5	218669.260	1.5
94.0710	26.02	-3.03	25142.400	3.0	131445.030	2.0	94.3184	15.01	-2.89	21576.200	0.0	127600.000	1.0
94.0745	26.02	-1.83	116475.440	3.0	222774.220	2.0	94.3241	26.02	-3.75	123552.950	1.0	229570.360	2.0
94.0746	26.02	-3.20	116467.410	4.0	222766.040	3.0	94.3340	29.01	-1.19	22846.970	2.0	128853.300	2.0
94.0747	26.02	-2.50	116467.410	4.0	222765.970	4.0	94.3348	25.02	-4.15	32307.300	3.5	138312.700	4.5
94.0758	25.02	-4.31	111883.600	2.5	218180.900	1.5	94.3349	25.02	-4.18	110398.500	2.5	216403.860	2.5
94.0817	26.02	-2.35	116475.440	3.0	222766.040	3.0	94.3353	25.02	-0.89	29241.400	1.5	135246.270	2.5
94.0817	25.02	-3.72	111776.600	1.5	218067.190	2.5	94.3386	25.02	-0.98	110711.620	3.5	216712.730	2.5
94.0818	26.02	-1.38	116475.440	3.0	222765.970	4.0	94.3429	28.01	-0.03	32499.530	4.5	138495.840	4.5
94.0829	26.02	-5.00	116316.630	5.0	222605.820	4.0	94.3483	25.02	-4.07	110172.690	1.5	216162.900	1.5
94.0844	28.01	-8.01	24788.200	1.5	131075.780	1.5	94.3582	25.02	-0.35	32383.700	2.5	138362.800	3.5
94.0859	26.02	-2.52	116316.630	5.0	222602.500	6.0	94.3595	26.02	-1.67	123552.950	1.0	229530.670	1.0
94.0883	28.01	-3.32	0.000	2.5	106283.160	2.5	94.3643	28.01	-1.32	32523.540	3.5	138495.840	4.5
94.0886	26.02	-3.76	116475.440	3.0	222758.280	2.0	94.3677	8.02	-4.93	297557.500	1.0	403526.000	1.0
94.0886	26.02	-1.81	116467.410	4.0	222750.230	3.0	94.3762	25.02	-3.29	110711.620	3.5	216670.580	4.5
94.0923	25.02	-6.69	39176.500	6.5	145455.100	7.5	94.3780	25.02	-1.00	32383.700	2.5	138340.620	2.5
94.0934	26.02	-1.06	116467.410	4.0	222744.790	5.0	94.3789	25.02	-0.83	32384.700	1.5	138340.620	2.5
94.0949	28.01	-8.14	24788.200	1.5	131063.850	0.5	94.3849	25.02	-3.68	29167.700	2.5	135116.800	1.5
94.0957	26.02	-1.28	116475.440	3.0	222750.230	3.0	94.3874	25.02	-2.21	43674.700	1.5	149621.000	0.5
94.0976	27.02	-2.08	23434.300	4.5	129706.900	3.5	94.3937	26.02	-1.41	30857.800	3.0	136797.050	3.0
94.1000	29.01	-4.96	22846.970	2.0	129116.900	3.0	94.3966	26.02	-2.12	30857.800	3.0	136793.820	2.0
94.1006	25.02	-5.01	29241.400	1.5	135510.700	2.5	94.4076	27.02	-1.50	841.200	3.5	106764.900	4.5
94.1017	26.02	-4.62	19404.800	2.0	125672.830	2.0	94.4110	26.02	-8.74	30088.840	3.0	136008.740	3.0
94.1027	26.02	-0.89	116467.410	4.0	222734.330	4.0	94.4131	25.02	-4.62	112057.800	3.5	217975.300	2.5
94.1069	26.02	-1.98	117068.560	3.0	223330.710	3.0	94.4192	26.02	-2.14	30886.400	4.0	136797.050	3.0
94.1069	25.02	-3.43	26824.400	5.5	133086.570	4.5	94.4202	25.02	-2.55	29207.300	0.5	135116.800	1.5
94.1094	26.02	-3.11	117068.560	3.0	223327.870	2.0	94.4219	28.01	-6.58	14995.570	2.5	120903.200	3.5
94.1098	26.02	-1.70	116475.440	3.0	222734.330	4.0	94.4243	9.02	-1.62	360348.280	0.5	466253.240	1.5
94.1104	26.02	-1.48	117068.560	3.0	223326.760	4.0	94.4271	26.02	-5.83	30088.840	3.0	135990.620	4.0
94.1161	25.02	-1.34	32383.700	2.5	138635.460	2.5	94.4342	28.01	-1.69	29070.930	1.5	134964.780	1.5
94.1170	25.02	-0.86	32384.700	1.5	138635.460	2.5	94.4360	12.02	-4.38	478846.100	2.0	584737.900	2.0
94.1172	25.02	-1.58	110172.690	1.5	216423.250	0.5	94.4366	26.02	-7.81	40999.870	2.0	146891.040	3.0
94.1175	25.02	-3.45	112057.800	3.5	218307.980	2.5	94.4381	25.02	-2.65	110172.690	1.5	216062.130	2.5
94.1176	25.02	-1.21	110711.620	3.5	216961.620	3.5	94.4393	26.02	-1.04	118163.560	2.0	224051.630	3.0
94.1207	28.01	-2.76	13550.390	3.5	119796.980	2.5	94.4400	12.02	-4.05	478846.100	2.0	584733.000	3.0
94.1255	28.02	-4.47	14031.600	2.0	120272.700	1.0	94.4420	25.02	-2.86	110398.500	2.5	216283.580	3.5
94.1301	28.01	-2.27	9330.040	3.5	115565.980	2.5	94.4467	28.01	-1.39	9330.040	3.5	115209.850	3.5
94.1305	25.02	-3.59	26851.100	4.5	133086.570	4.5	94.4477	26.02	-1.96	116898.220	2.0	222776.890	1.0
94.1325	26.02	-3.49	19404.800	2.0	125637.980	3.0	94.4501	26.02	-1.46	116898.220	2.0	222774.220	2.0
94.1339	26.02	-1.68	116467.410	4.0	222699.090	5.0	94.4505	25.02	-3.12	110036.140	0.5	215911.730	1.5
94.1343	25.02	-4.00	110172.690	1.5	216403.860	2.5	94.4506	25.02	-2.22	29241.400	1.5	135116.800	1.5
94.1346	28.01	-5.21	1506.940	1.5	107737.810	1.5	94.4519	16.05	-0.35	0.000	0.5	105874.000	0.5
94.1353	28.01	-0.73	10663.890	1.5	116893.980	2.5	94.4523	25.02	-1.23	29167.700	2.5	135041.250	1.5
94.1383	25.02	-1.89	26859.900	3.5	133086.570	4.5	94.4526	26.02	-1.37	123697.180	2.0	229570.360	2.0
94.1401	23.02	-4.77	56160.420	2.5	162385.110	3.5	94.4574	26.02	-1.51	116898.220	2.0	222766.040	3.0
94.1475	14.02	-4.67	12853.280	1.0	159069.610	0.0	94.4598	25.02	-2.12	43668.840	2.5	149533.980	1.5
94.1542	25.02	-1.46	26851.100	4.5	133059.840	3.5	94.4633	28.01	-1.27	0.000	2.5	105861.190	2.5
94.1601	25.02	-1.82	26857.800	2.5	133059.840	3.5	94.4643	26.02	-2.43	116898.220	2.0	222758.280	2.0
94.1620	25.02	-1.87	26859.900	3.5	133059.840	3.5	94.4650	25.02	-5.66	43674.700	1.5	149533.980	1.5
94.1631	25.02	-4.32	111776.600	1.5	217975.300	2.5	94.4666	23.02	-7.81	583.800	4.5	106441.310	4.5
94.1632	28.01	-9.06	14995.570	2.5	121194.140	2.5	94.4715	26.02	-1.70	116898.220	2.0	222750.230	3.0
94.1637	26.02	-2.08	24558.800	5.0	130756.840	6.0	94.4720	3.01	-0.78	476046.000	0.0	581897.469	0.0
94.1648	28.01	-9.37	14995.570	2.5	121192.320	3.5	94.4723	25.02	-2.00	32383.700	2.5	138234.790	1.5
94.1692	28.01	-3.13	23796.180	1.5	129988.050	2.5	94.4731	25.02	-0.77	111111.390	4.5	216961.620	3.5
94.1736	27.02	-3.18	20194.900	1.5	126381.800	1.5	94.4732	25.02	-1.01	32384.700	1.5	138234.790	1.5
94.1743	27.02	-1.57	1866.800	1.5	108052.900	2.5	94.4771	27.02	-0.52	1451.300	2.5	107297.000	1.5
94.1745	26.02	-4.02	116419.390	2.0	222605.240	3.0	94.4771	25.02	-2.82	110711.620	3.5	216557.380	3.5
94.1746	15.04	-1.53	304445.300	1.5	410631.100	2.5	94.4786	25.02	-2.63	43668.840	2.5	149512.900	1.5
94.1746	15.04	-2.48	304445.300	1.5	410631.100	1.5	94.4819	9.02	-1.34	360435.080	1.5	466275.500	2.5
94.1765	25.02	-4.09	111883.600	2.5	218067.190	2.5	94.4828	26.02	-1.47	116937.570	1.0	222776.890	1.0
94.1770	28.01	-8.63	14995.570	2.5	121178.560	3.5	94.4838	25.02	-2.53	43674.700	1.5	149512.900	1.5
94.1815	26.02	-4.67	82846.590	4.0	189024.530	5.0	94.4840	28.01	-1.68	0.000	2.5	105838.060	3.5
94.1877	27.02	-1.60	24236.800	1.5	130407.800	2.5	94.4852	26.02	-1.77	116937.570	1.0	222774.220	2.0
94.1919	28.01	-9.78	14995.570	2.5	121161.810	1.5	94.4876	25.02	-1.15	29207.300	0.5	135041.250	1.5
94.1972	28.01	-0.89	10663.890	1.5	116824.150	2.5	94.4876	25.02	-1.07	39174.400	5.5	145008.360	6.5
94.1973	28.01	-0.36	10115.660	2.5	116275.810	3.5	94.4880	26.02	-1.55	123697.180	2.0	229530.6	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
94.5525	29.01	-2.04	23998.220	1.0	129759.600	1.0
94.5544	26.02	-1.33	123750.390	3.0	229509.560	3.0
94.5549	28.01	-6.90	23108.280	2.5	128867.000	3.5
94.5579	6.00	.05	43.400	2.0	105798.700	1.0
94.5582	26.02	-1.78	30857.800	3.0	136612.780	4.0
94.5584	26.02	-4.77	117068.560	3.0	222823.330	4.0
94.5619	25.02	-3.89	110398.500	2.5	216149.320	3.5
94.5638	26.02	-2.47	30716.200	2.0	136464.900	1.0
94.5661	27.02	-3.34	23058.800	2.5	128804.900	1.5
94.5666	28.01	-6.84	23108.280	2.5	128853.870	2.5
94.5670	25.02	-2.88	32383.700	2.5	138128.800	1.5
94.5679	25.02	-2.52	32384.700	1.5	138128.800	1.5
94.5724	26.02	-2.40	30725.800	1.0	136464.900	1.0
94.5724	25.02	-2.92	110172.690	1.5	215911.730	1.5
94.5728	25.02	-1.90	113078.340	1.5	218816.970	2.5
94.5765	28.01	-3.54	24835.930	.5	130570.420	.5
94.5826	25.02	-2.06	112645.310	.5	218373.000	1.5
94.5838	26.02	-2.43	30886.400	4.0	136612.780	4.0
94.5852	25.02	-1.68	32404.000	.5	138128.800	1.5
94.5871	29.01	-4.25	22846.970	2.0	128569.600	2.0
94.5905	28.01	-9.14	23108.280	2.5	128827.150	3.5
94.5949	28.01	-7.20	23108.280	2.5	128822.230	1.5
94.5965	28.01	-1.16	29070.930	1.5	134783.140	2.5
94.5967	29.01	-1.18	22846.970	2.0	128559.900	3.0
94.5977	6.01	-.62	96493.740	.5	202200.520	.5
94.5998	26.02	-1.83	118350.240	4.0	224058.700	4.0
94.6011	26.02	-3.32	118898.220	2.0	222605.240	3.0
94.6023	26.02	-2.08	117068.560	3.0	222774.220	2.0
94.6023	25.02	-1.04	39174.400	5.5	144880.100	5.5
94.6042	25.02	.13	39176.500	6.5	144880.100	5.5
94.6047	25.02	-2.73	110172.690	1.5	215875.730	2.5
94.6054	26.02	-.87	20688.400	1.0	126390.570	1.0
94.6061	26.02	-.93	118350.240	4.0	224051.630	3.0
94.6096	26.02	-5.29	24558.800	5.0	130256.270	5.0
94.6096	26.02	-2.60	117068.560	3.0	222766.040	3.0
94.6097	26.02	-1.63	117068.560	3.0	222765.970	4.0
94.6119	28.01	-8.84	23108.280	2.5	128803.230	2.5
94.6143	25.02	-1.86	110711.620	3.5	216403.860	2.5
94.6166	26.02	-4.13	117068.560	3.0	222758.280	2.0
94.6177	26.02	-1.49	118350.240	4.0	224038.730	5.0
94.6198	6.01	-.32	96493.740	.5	202179.850	1.5
94.6220	26.02	-.60	118355.010	6.0	224038.730	5.0
94.6238	26.02	-1.53	117068.560	3.0	222750.230	3.0
94.6257	26.02	-4.12	82333.920	3.0	188013.400	4.0
94.6259	25.02	-2.30	110036.140	.5	215715.410	1.5
94.6301	26.02	-3.64	30857.800	3.0	136532.450	2.0
94.6330	26.02	-1.65	123750.390	3.0	229421.730	4.0
94.6341	28.01	-2.59	9330.040	3.5	115000.250	3.5
94.6341	25.02	-.59	111601.450	5.5	217271.590	4.5
94.6348	28.01	-1.18	10115.660	2.5	115785.060	1.5
94.6353	28.01	-2.91	0.000	2.5	105668.780	2.5
94.6380	26.02	-3.39	35803.700	2.0	141469.450	1.0
94.6380	26.02	-1.95	117068.560	3.0	222734.330	4.0
94.6399	25.02	-1.78	110398.500	2.5	216062.130	2.5
94.6407	26.02	-3.98	35803.700	2.0	141466.530	3.0
94.6449	28.01	-1.40	8393.900	4.5	114052.040	3.5
94.6539	27.02	-.95	841.200	3.5	106489.200	3.5
94.6549	9.02	-2.34	384493.060	1.5	490140.000	1.5
94.6549	9.02	-1.34	384493.060	1.5	490140.000	2.5
94.6604	27.02	-.69	1866.800	1.5	107507.600	.5
94.6625	28.02	-1.93	14031.600	2.0	119670.000	2.0
94.6654	28.01	-1.45	1506.940	1.5	107142.210	1.5
94.6684	25.02	-4.42	43602.500	3.5	149234.400	2.5
94.6703	12.01	-3.01	0.000	.5	105629.720	1.5
94.6717	25.02	-3.05	32307.300	3.5	137935.530	4.5
94.6728	25.02	-2.80	113078.340	1.5	218705.250	2.5
94.6757	28.01	-9.07	23108.280	2.5	128732.030	1.5
94.6769	12.01	-3.32	0.000	.5	105622.340	.5
94.6784	28.02	-4.24	16661.600	2.0	122282.300	2.0
94.6820	26.02	-9.24	30088.840	3.0	135705.570	3.0
94.6828	26.02	-1.69	118442.920	3.0	224058.700	4.0
94.6892	26.02	-2.73	118442.920	3.0	224051.630	3.0
94.6978	16.01	-3.63	0.000	1.5	105599.020	1.5
94.7009	25.02	-4.04	110711.620	3.5	216307.290	4.5
94.7011	26.02	-2.35	35803.700	2.0	141399.040	2.0
94.7051	25.02	-3.95	113078.340	1.5	218669.260	1.5
94.7133	25.02	-2.04	29207.300	.5	134789.080	.5
94.7145	25.02	-3.47	111111.390	4.5	216691.830	5.5
94.7192	28.01	-1.81	1506.940	1.5	107082.210	2.5
94.7221	25.02	-1.47	110711.620	3.5	216283.580	3.5
94.7279	25.02	-3.33	43668.840	2.5	149234.400	2.5
94.7331	25.02	-4.13	43674.700	1.5	149234.400	2.5
94.7336	25.02	-1.46	111111.390	4.5	216670.580	4.5
94.7418	26.02	-4.17	19404.800	2.0	124954.880	1.0
94.7439	25.02	-4.66	29241.400	1.5	134789.080	.5
94.7466	25.02	-1.80	110036.140	.5	215580.870	.5
94.7476	28.01	-2.94	24788.200	1.5	130331.780	1.5
94.7484	25.02	-1.55	110172.690	1.5	215715.410	1.5
94.7495	24.02	-2.71	25725.800	3.0	131267.300	4.0
94.7521	27.02	-3.14	22720.300	5.5	128258.900	5.5
94.7533	26.02	-3.38	117068.560	3.0	222605.820	4.0
94.7538	26.02	-4.75	117068.560	3.0	222605.240	3.0
94.7548	25.02	-1.55	112645.310	.5	218180.900	1.5
94.7691	26.02	-4.74	30716.200	2.0	136235.840	1.0
94.7748	25.02	-1.64	110398.500	2.5	215911.730	1.5
94.7773	27.02	-1.41	24236.800	1.5	129747.300	2.5
94.7777	26.02	-3.65	30725.800	1.0	136235.840	1.0
94.7777	18.04	-2.30	16300.000	2.0	121810.000	3.0
94.7837	27.02	-.91	1451.300	2.5	106954.700	2.5
94.7854	26.02	-.69	118557.250	5.0	224058.700	4.0
94.7875	26.02	-2.43	19404.800	2.0	124903.920	2.0
94.7876	28.01	-2.56	0.000	2.5	105499.050	3.5
94.7905	28.01	-2.66	24835.930	.5	130331.780	1.5
94.8012	26.02	-3.45	30716.200	2.0	136200.130	3.0
94.8027	25.02	-2.71	112645.310	.5	218127.590	.5
94.8034	26.02	-2.13	118557.250	5.0	224038.730	5.0
94.8072	25.02	-1.35	110398.500	2.5	215875.730	2.5
94.8078	28.01	-1.63	10115.660	2.5	115592.250	1.5
94.8131	25.02	-.68	29167.700	2.5	134638.390	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
94.8172	27.02	-3.71	23058.800	2.5	128524.900	2.5
94.8177	26.02	-5.22	30088.840	3.0	135554.410	4.0
94.8197	27.02	-2.11	20918.500	.5	126381.800	1.5
94.8203	23.02	-4.10	56922.500	2.5	162385.110	3.5
94.8314	28.01	-1.16	10115.660	2.5	115565.980	2.5
94.8324	26.02	-1.12	19404.800	2.0	124854.040	3.0
94.8353	25.02	-1.69	111111.390	4.5	216557.380	3.5
94.8369	28.01	-5.97	25036.380	2.5	130480.550	3.5
94.8402	25.02	-1.73	112645.310	.5	218085.880	.5
94.8408	28.01	-3.80	0.000	2.5	105439.850	1.5
94.8409	25.02	-4.24	26857.800	2.5	132297.550	2.5
94.8413	28.01	-7.50	24788.200	1.5	130227.520	2.5
94.8421	13.01	-7.03	0.000	0.0	105438.400	1.0
94.8427	25.02	-1.18	110711.620	3.5	216149.320	3.5
94.8428	25.02	-3.48	26859.900	3.5	132297.550	2.5
94.8433	25.02	-.93	110036.140	.5	215473.200	1.5
94.8487	25.02	-1.17	29207.300	.5	134638.390	1.5
94.8495	27.02	-1.04	1866.800	1.5	107297.000	1.5
94.8518	23.02	-4.63	56160.420	2.5	161588.040	3.5
94.8585	28.01	-7.54	24788.200	1.5	130197.230	1.5
94.8685	8.00	-3.45	0.000	2.0	105409.020	1.0
94.8685	8.00	-2.27	0.000	2.0	105409.020	2.0
94.8685	8.00	-1.52	0.000	2.0	105409.020	3.0
94.8693	25.02	-2.08	110172.690	1.5	215580.870	.5
94.8731	12.02	-3.96	477435.700	2.0	582839.700	3.0
94.8739	26.02	-2.16	124854.040	3.0	230257.150	2.0
94.8751	26.02	-2.69	30716.200	2.0	136117.940	2.0
94.8794	25.02	-3.48	29241.400	1.5	134638.390	1.5
94.8801	28.01	-8.10	24788.200	1.5	130184.390	2.5
94.8836	24.02	-5.56	25725.800	3.0	131118.100	3.0
94.8837	26.02	-3.65	30725.800	1.0	136117.940	2.0
94.8894	28.01	-8.28	24788.200	1.5	130174.030	1.5
94.8898	8.00	-6.77	0.000	2.0	105385.448	1.0
94.8898	8.00	-6.63	0.000	2.0	105385.421	2.0
94.8917	26.02	-.91	30356.200	6.0	135739.470	6.0
94.8955	26.02	-2.97	30356.200	6.0	135735.310	5.0
94.8965	18.04	-2.79	16300.000	2.0	121678.000	2.0
94.9009	26.02	-4.92	121008.780	3.0	226381.910	3.0
94.9015	26.02	-2.47	118686.250	4.0	224058.700	4.0
94.9025	28.01	-1.46	29593.460	.5	134964.780	1.5
94.9078	26.02	-1.40	118686.250	4.0	224051.630	3.0
94.9088	27.02	-2.33	23058.800	2.5	128423.100	1.5
94.9130	28.01	-8.63	24788.200	1.5	130147.870	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
95.0650	28.01	-7.56	25036.380	2.5	130227.520	2.5	95.3031	28.01	-7.59	10663.890	1.5	115592.250	1.5
95.0659	26.02	-9.52	30088.840	3.0	135279.040	2.0	95.3034	28.01	-7.09	8393.900	4.5	113321.950	4.5
95.0662	15.03	-2.27	0.000	0.0	105189.900	1.0	95.3042	25.01	-2.92	14325.860	4.0	119253.000	3.0
95.0665	28.01	-7.32	25036.380	2.5	130225.870	3.5	95.3042	25.01	-1.74	14325.860	4.0	119253.000	4.0
95.0717	28.01	-9.39	29070.930	1.5	134254.690	1.5	95.3042	25.01	-0.88	14325.860	4.0	119253.000	5.0
95.0732	26.02	-1.36	21208.500	0.0	126390.570	1.0	95.3134	26.02	-2.48	118355.010	6.0	223272.060	6.0
95.0733	8.00	-2.15	226.977	0.0	105409.020	1.0	95.3207	23.02	-4.82	56256.750	1.5	161165.810	2.5
95.0777	26.02	-3.37	117521.910	4.0	222699.090	5.0	95.3207	13.01	-2.47	37453.800	1.0	142362.800	1.0
95.0799	23.02	-4.36	145.500	2.5	105320.180	1.5	95.3207	13.01	-2.00	37453.800	1.0	142362.800	2.0
95.0804	27.02	-2.28	20194.900	1.5	125369.100	2.5	95.3254	25.02	-1.48	112057.800	3.5	216961.620	3.5
95.0819	28.01	-7.64	25036.380	2.5	130208.890	3.5	95.3267	28.01	-2.17	29070.930	1.5	133973.330	2.5
95.0819	12.02	-4.51	479456.000	1.0	584628.500	2.0	95.3270	28.01	-3.80	10663.890	1.5	115565.980	2.5
95.0822	25.02	-1.54	111111.390	4.5	216283.580	3.5	95.3286	23.02	-4.72	56669.050	1.5	161569.410	1.5
95.0833	28.01	-2.07	14995.570	2.5	120166.520	1.5	95.3293	25.02	-2.98	43668.840	2.5	148568.400	2.5
95.0867	26.02	-2.74	118163.560	2.0	223330.710	3.0	95.3301	25.02	-1.60	32383.700	2.5	137282.400	2.5
95.0893	26.02	-3.29	118163.560	2.0	223327.870	2.0	95.3310	25.02	-2.41	32384.700	1.5	137282.400	2.5
95.0895	25.02	-2.50	110711.620	3.5	215875.730	2.5	95.3316	25.02	-2.45	113078.340	1.5	217975.300	2.5
95.0911	25.02	-1.86	112645.310	4.5	217807.570	1.5	95.3327	28.02	-4.78	71841.900	1.0	176737.700	0.0
95.0924	28.01	-8.46	25036.380	2.5	130197.230	1.5	95.3346	25.02	-2.42	43674.700	1.5	148568.400	2.5
95.0946	8.00	-6.89	226.977	0.0	105385.448	1.0	95.3383	26.02	-2.19	35803.700	2.0	140693.360	3.0
95.0967	26.02	-2.51	20481.900	4.0	125637.980	1.0	95.3400	26.02	-4.75	118442.920	3.0	223330.710	3.0
95.1014	26.02	-3.77	30857.800	3.0	136008.740	3.0	95.3404	26.02	-9.29	30088.840	3.0	134976.220	3.0
95.1014	26.02	-6.18	30088.840	3.0	135239.740	4.0	95.3415	7.00	-1.43	0.000	1.5	104886.070	.5
95.1040	28.01	-7.39	25036.380	2.5	130184.390	2.5	95.3426	26.02	-5.00	118442.920	3.0	223327.870	2.0
95.1080	7.00	-3.27	0.000	1.5	105143.680	2.5	95.3429	28.01	-2.14	10115.660	2.5	115000.250	3.5
95.1088	26.02	-1.95	20300.800	5.0	125443.580	4.0	95.3436	26.02	-2.86	118442.920	3.0	223326.760	4.0
95.1107	27.02	-2.11	1451.300	2.5	106591.900	1.5	95.3631	28.01	-4.06	1506.940	1.5	106369.300	1.5
95.1109	25.02	-1.72	113676.530	2.5	218816.970	2.5	95.3655	7.00	-1.13	0.000	1.5	104859.700	1.5
95.1111	26.02	-3.33	121241.670	4.0	226381.910	3.0	95.3697	29.01	-3.60	23998.220	1.0	128853.300	2.0
95.1134	28.01	-7.64	25036.380	2.5	130174.030	1.5	95.3703	12.02	-4.11	477435.700	2.0	582290.100	3.0
95.1137	28.01	-4.66	29070.930	1.5	134208.300	2.5	95.3753	26.02	-2.46	30886.400	4.0	135735.310	5.0
95.1139	23.02	-4.26	145.500	2.5	105282.650	2.5	95.3762	11.02	-4.83	406562.000	1.5	511410.000	2.5
95.1144	25.02	-0.08	39174.400	5.5	144311.000	5.5	95.3764	26.02	-2.40	30857.800	3.0	135709.570	3.0
95.1163	25.02	-1.54	39176.500	6.5	144311.000	5.5	95.3799	25.02	-3.91	26857.800	2.5	131701.690	1.5
95.1176	26.02	-2.16	30857.800	3.0	135990.620	4.0	95.3927	25.02	-1.36	113676.530	2.5	218506.390	3.5
95.1209	25.02	-3.20	32307.300	3.5	137436.700	4.5	95.3933	25.02	-1.36	111883.600	2.5	216712.730	2.5
95.1258	27.02	-1.51	841.200	3.5	105965.100	2.5	95.3937	28.01	-2.57	13550.390	3.5	118379.110	2.5
95.1273	26.02	-1.95	30886.400	4.0	136008.740	3.0	95.3970	7.00	-0.92	0.000	1.5	104825.080	2.5
95.1278	25.02	-1.26	110398.500	2.5	215520.220	2.5	95.3975	27.02	-0.84	23434.300	4.5	128258.900	5.5
95.1283	28.01	-1.35	10663.890	1.5	115785.060	1.5	95.4024	26.02	-2.06	30886.400	4.0	135705.570	3.0
95.1295	7.00	-4.07	0.000	1.5	105119.850	1.5	95.4104	7.00	-3.23	0.000	1.5	104810.330	2.5
95.1437	26.02	-3.33	30886.400	4.0	135990.620	4.0	95.4120	25.02	-2.55	110711.620	3.5	215520.220	2.5
95.1439	28.02	-4.05	71383.700	2.0	176487.700	2.0	95.4122	27.02	-2.67	20194.900	1.5	125003.300	2.5
95.1452	25.02	-2.12	113078.340	1.5	218180.900	1.5	95.4143	25.02	-1.39	111111.390	4.5	215917.520	4.5
95.1527	28.01	-1.80	10115.660	2.5	115209.850	3.5	95.4186	28.01	-4.14	14995.570	2.5	119796.980	2.5
95.1562	25.02	-0.75	111601.450	5.5	216691.830	5.5	95.4310	13.01	-2.87	37392.000	0.0	142179.800	1.0
95.1572	26.02	-4.77	117521.910	4.0	222611.160	5.0	95.4316	28.01	-3.50	23108.280	2.5	127895.330	3.5
95.1584	27.02	-2.09	1866.800	1.5	106954.700	2.5	95.4349	13.01	-3.65	37579.300	2.0	142362.800	1.0
95.1607	28.01	-4.11	29070.930	1.5	134156.280	1.5	95.4349	13.01	-2.48	37579.300	2.0	142362.800	2.0
95.1618	26.02	-3.74	118246.520	3.0	223330.710	3.0	95.4349	13.01	-1.73	37579.300	2.0	142362.800	3.0
95.1619	25.02	-0.93	39174.400	5.5	144258.500	6.5	95.4358	25.02	-2.83	43573.160	4.5	148355.600	3.5
95.1620	26.02	-4.79	117521.910	4.0	222605.820	4.0	95.4415	28.01	-3.57	1506.940	1.5	106283.160	2.5
95.1632	25.02	-0.34	111111.390	4.5	216194.050	5.5	95.4476	26.02	-2.71	118557.250	5.0	223326.760	4.0
95.1636	25.02	-0.05	39176.500	6.5	144258.500	6.5	95.4487	25.02	-3.45	114209.010	3.5	218977.340	3.5
95.1644	26.02	-3.78	118246.520	3.0	223327.870	2.0	95.4605	25.02	-1.46	111776.600	1.5	216531.990	1.5
95.1654	26.02	-2.76	118246.520	3.0	223326.760	4.0	95.4618	25.02	-3.37	32383.700	2.5	137137.690	1.5
95.1668	25.02	-1.98	29207.300	.5	134286.000	.5	95.4620	28.01	-2.75	10115.660	2.5	114869.350	1.5
95.1674	25.02	-1.14	111883.600	2.5	216961.620	3.5	95.4626	25.02	-3.46	43602.500	3.5	148355.600	3.5
95.1704	25.02	-2.52	110398.500	2.5	215473.200	1.5	95.4627	25.02	-1.53	32384.700	1.5	137137.690	1.5
95.1754	25.02	-1.35	111601.450	5.5	216670.580	4.5	95.4635	26.02	-2.84	118557.250	5.0	223309.370	5.0
95.1858	28.01	-7.93	23796.180	1.5	128853.670	2.5	95.4660	26.02	-0.79	125443.580	4.0	230192.860	3.0
95.1871	9.00	-0.93	0.000	.5	105056.282	.5	95.4693	28.01	-5.54	25036.380	2.5	129782.070	3.5
95.1934	25.02	-1.49	113078.340	1.5	218127.590	.5	95.4738	28.02	-4.96	71841.900	1.0	176582.700	1.0
95.1943	29.01	-2.46	26264.400	2.0	131312.700	3.0	95.4754	26.02	-3.28	42896.900	3.0	147635.950	3.0
95.1977	25.02	-1.21	29241.400	1.5	134286.000	.5	95.4803	25.02	-2.26	32404.000	.5	137137.690	1.5
95.2017	23.02	-4.84	56529.300	.5	161569.410	1.5	95.4827	9.00	-1.22	0.000	.5	104731.050	1.5
95.2037	27.02	-2.13	1451.300	2.5	106489.200	3.5	95.4843	25.02	-1.68	113078.340	1.5	217807.570	1.5
95.2037	25.02	-2.97	111111.390	4.5	216149.320	3.5	95.4873	13.01	-2.40	37453.800	1.0	142179.800	1.0
95.2121	25.02	-1.30	113676.530	2.5	218705.250	2.5	95.4881	27.02	-2.66	1866.800	1.5	106591.900	1.5
95.2142	27.02	-3.76	23058.800	2.5	128085.200	2.5	95.4892	25.02	-1.37	113676.530	2.5	218400.400	3.5
95.2145	28.01	-7.64	23796.180	1.5	128822.230	1.5	95.4909	28.01	-0.40	9330.040	3.5	114052.040	3.5
95.2263	28.01	-3.16	13550.390	3.5	118563.390	3.5	95.4909	25.02	-2.12	114094.970	1.5	218816.970	2.5
95.2302	27.02	-1.23	0.000	4.5	105008.700	3.5	95.4948	26.02	-3.17	42896.900	3.0	147614.650	2.0
95.2304	7.00	-2.13	0.000	1.5	105008.720	2.5	95.4961	26.02	-3.01	124854.040	3.0	229570.360	2.0
95.2308	26.02	-9.36	30088.840	3.0	135096.840	3.0	95.4975	26.02	-4.32	118557.250	5.0	223272.060	6.0
95.2342	28.01	-0.64	10115.660	2.5	115120.000	2.5	95.4981	28.02	-1.22	14031.600	2.0	118745.700	3.0
95.2349	28.01	-7.69	23796.180	1.5	128799.720	.5	95.5057	25.02	-3.46	111601.450	5.5	216307.290	4.5
95.2374	23.02	-4.75	56922.500	2.5	161923.280	2.5	95.5104	27.02	-3.41	24236.800	1.5	128937.400	.5
95.2415	7.00	-2.19	0.000	1.5	104996.240</								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
95.5736	25.02	-3.46	113676.530	2.5	218307.980	2.5
95.5774	25.02	-1.81	111776.600	1.5	216403.860	2.5
95.5779	26.02	-4.24	124903.920	2.0	229530.670	1.0
95.5812	26.02	-2.35	118686.250	4.0	223309.370	5.0
95.5848	26.02	-0.94	125637.980	3.0	230257.150	2.0
95.5854	26.02	-9.88	40999.870	2.0	145618.390	2.0
95.5881	26.02	-4.12	124954.880	1.0	229570.360	2.0
95.5882	7.00	-2.90	0.000	1.5	104615.440	1.5
95.5901	26.02	-2.76	118163.560	2.0	222776.890	1.0
95.5906	25.02	-1.04	112057.800	3.5	216670.580	4.5
95.5926	26.02	-3.92	118163.560	2.0	222774.220	2.0
95.5929	25.02	-3.14	114094.970	1.5	218705.250	2.5
95.5940	26.02	-4.30	118721.600	2.0	223330.710	3.0
95.5966	26.02	-4.69	118721.600	2.0	223327.870	2.0
95.5971	26.02	-3.19	124903.920	2.0	229509.560	3.0
95.6000	26.02	-4.59	118163.560	2.0	222766.040	3.0
95.6018	13.01	-2.17	37579.300	2.0	142179.800	1.0
95.6063	25.02	-4.41	26824.400	5.5	131420.030	6.5
95.6071	26.02	-2.59	118163.560	2.0	222758.280	2.0
95.6091	25.02	-1.63	111601.450	5.5	216194.050	5.5
95.6145	26.02	-3.61	118163.560	2.0	222750.230	3.0
95.6166	26.02	-1.78	125672.830	2.0	230257.150	2.0
95.6171	25.02	-4.85	29167.700	2.5	133751.500	3.5
95.6175	27.02	-2.35	23434.300	4.5	128017.700	3.5
95.6235	26.02	-4.28	118246.520	3.0	222823.330	4.0
95.6244	26.02	-4.11	124954.880	1.0	229530.670	1.0
95.6248	26.02	-1.13	125672.830	2.0	230257.150	1.0
95.6285	29.01	-1.15	23998.220	1.0	128569.600	2.0
95.6315	27.02	-3.28	24236.800	1.5	128804.900	1.5
95.6318	26.02	-1.88	124854.040	3.0	229421.730	4.0
95.6334	26.04	-4.92	187725.000	4.0	292291.000	5.0
95.6363	28.01	-3.16	29593.460	5	134156.280	1.5
95.6363	26.02	-1.54	30716.200	2.0	135279.040	2.0
95.6436	26.02	-1.91	125637.980	3.0	230192.860	3.0
95.6450	25.01	-8.95	9472.970	2.0	114026.300	3.0
95.6451	26.02	-2.33	30725.800	1.0	135279.040	2.0
95.6461	25.02	-2.78	111111.390	4.5	215663.500	3.5
95.6463	25.01	-9.33	9472.970	2.0	114024.800	2.0
95.6472	25.02	-1.33	32384.700	1.5	136935.600	1.5
95.6632	26.02	-4.87	21857.200	2.0	126390.570	1.0
95.6649	25.02	-1.25	32404.000	5	136935.600	5.5
95.6672	25.02	-1.74	114287.910	2.5	218816.970	2.5
95.6684	26.02	-2.83	118246.520	3.0	222774.220	2.0
95.6694	26.02	-4.51	89084.790	3.0	193611.320	4.0
95.6699	26.02	-1.09	89084.790	3.0	193610.920	3.0
95.6744	26.02	-1.94	89084.790	3.0	193605.990	2.0
95.6752	25.02	-1.29	111883.600	2.5	216403.860	2.5
95.6754	26.02	-3.18	125672.830	2.0	230192.860	3.0
95.6759	26.02	-2.74	118246.520	3.0	222766.040	3.0
95.6760	26.02	-4.26	118246.520	3.0	222765.970	3.0
95.6786	25.02	-4.67	32307.300	3.5	136823.860	3.5
95.6793	28.01	-5.70	1506.940	1.5	106022.790	1.5
95.6811	27.02	-2.11	1451.300	2.5	105965.100	2.5
95.6830	26.02	-3.75	118246.520	3.0	222758.280	2.0
95.6892	25.02	-1.26	32383.700	2.5	136888.700	1.5
95.6898	25.02	-2.86	113676.530	2.5	218180.900	1.5
95.6901	25.02	-1.19	32384.700	1.5	136888.700	1.5
95.6904	26.02	-3.67	118246.520	3.0	222750.230	3.0
95.6908	28.01	-1.99	0.000	2.5	104503.220	2.5
95.6929	26.02	-1.75	30716.200	2.0	135217.170	1.0
95.6942	25.02	-4.76	112057.800	3.5	216557.380	3.5
95.6972	25.02	-3.70	114209.010	3.5	218705.250	2.5
95.7017	26.02	-1.89	30725.800	1.0	135217.170	1.0
95.7036	25.02	-1.47	32307.300	3.5	136795.610	2.5
95.7049	26.02	-3.70	118246.520	3.0	222734.330	4.0
95.7078	25.02	-1.25	32404.000	5	136888.700	1.5
95.7100	26.02	-2.72	118350.240	4.0	222832.480	5.0
95.7123	26.02	-3.30	118355.010	6.0	222834.770	6.0
95.7144	26.02	-4.96	118355.010	6.0	222832.480	5.0
95.7156	25.02	-4.26	114501.180	4.5	218977.340	3.5
95.7184	26.02	-3.87	118350.240	4.0	222823.330	4.0
95.7196	25.01	-2.62	14781.190	2.0	119253.000	1.0
95.7196	25.01	-1.62	14781.190	2.0	119253.000	1.0
95.7196	25.01	-1.24	14781.190	2.0	119253.000	1.0
95.7215	26.02	-2.17	118355.010	6.0	222824.710	7.0
95.7340	28.01	-1.08	10663.890	1.5	115120.000	2.5
95.7449	28.01	-1.66	10663.890	1.5	115108.090	2.5
95.7472	26.02	-2.65	118163.560	2.0	222605.240	3.0
95.7472	16.01	-1.98	14853.000	1.5	119294.700	2.5
95.7486	25.02	-1.23	32383.700	2.5	136823.860	3.5
95.7500	25.02	-2.90	113676.530	2.5	218115.150	3.5
95.7579	26.02	-3.86	30886.400	4.0	135316.420	5.0
95.7643	28.01	-2.07	9330.040	3.5	113753.040	4.5
95.7652	28.01	-2.01	13550.390	3.5	117972.470	3.5
95.7660	26.02	-2.07	30857.800	3.0	135279.040	2.0
95.7695	25.02	-1.20	114287.910	2.5	218705.250	2.5
95.7709	26.02	-3.61	118350.240	4.0	222766.040	3.0
95.7736	25.02	-4.88	32383.700	2.5	136795.610	2.5
95.7745	25.02	-1.11	32384.700	1.5	136796.610	2.5
95.7764	16.01	-1.17	14884.800	2.5	119294.700	2.5
95.7854	26.02	-4.80	118350.240	4.0	222750.230	3.0
95.7855	25.02	-1.08	111883.600	2.5	216283.580	3.5
95.7861	27.02	-3.72	23058.800	2.5	127458.100	1.5
95.7904	26.02	-3.06	118350.240	4.0	222744.790	5.0
95.7940	25.02	-1.77	113676.530	2.5	218067.190	2.5
95.7948	26.02	-2.93	118355.010	6.0	222744.790	5.0
95.7954	16.01	-1.39	14853.000	1.5	119242.130	1.5
95.7980	25.02	-2.11	111776.600	1.5	216162.900	1.5
95.8000	26.02	-2.92	118350.240	4.0	222734.330	4.0
95.8013	9.03	-2.28	456884.300	1.0	561267.000	1.0
95.8020	26.02	-3.41	30857.800	3.0	135239.740	4.0
95.8022	25.02	-2.44	113991.310	5	218373.000	1.5
95.8026	25.02	-2.39	114287.910	2.5	218669.260	1.5
95.8032	26.02	-3.81	30716.200	2.0	135096.840	3.0
95.8034	26.02	-4.99	118442.920	3.0	222823.330	4.0
95.8104	12.02	-4.80	478374.500	1.0	582747.300	2.0
95.8110	26.02	-2.35	20481.900	4.0	124854.040	3.0
95.8196	26.02	-2.07	30725.800	1.0	135088.600	0.0
95.8228	26.02	-2.81	118246.520	3.0	222605.820	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
95.8228	26.02	-2.80	118355.010	6.0	222714.300	6.0
95.8233	26.02	-4.13	118246.520	3.0	222605.240	3.0
95.8246	16.01	-1.27	14884.800	2.5	119242.130	1.5
95.8274	28.01	-1.95	1506.940	1.5	105861.190	2.5
95.8277	26.02	-3.63	119697.640	2.0	224051.630	3.0
95.8283	26.02	-4.65	30886.400	4.0	135239.740	4.0
95.8297	25.01	-1.77	14901.180	1.0	119253.000	1.0
95.8297	25.01	-1.47	14901.180	1.0	119253.000	2.0
95.8324	26.02	-3.75	118350.240	4.0	222699.090	5.0
95.8350	25.02	-1.12	112057.800	3.5	216403.860	2.5
95.8354	26.02	-1.83	19404.800	2.0	123750.390	3.0
95.8368	26.02	-2.99	118355.010	6.0	222699.090	5.0
95.8485	26.02	-3.16	118442.920	3.0	222774.220	2.0
95.8492	27.02	-1.33	22720.300	5.5	127050.800	4.5
95.8525	9.00	-4.51	404.100	1.5	104731.050	1.5
95.8531	27.02	-2.28	37021.000	3.5	141347.300	4.5
95.8560	26.02	-3.23	118442.920	3.0	222766.040	3.0
95.8561	26.02	-3.48	118442.920	3.0	222765.970	4.0
95.8567	28.01	-3.13	13550.390	3.5	117872.780	2.5
95.8625	25.02	-3.22	111601.450	5.5	215917.520	4.5
95.8632	26.02	-4.34	118442.920	3.0	222758.280	2.0
95.8697	26.01	-1.36	329182.203	0.0	433490.446	0.0
95.8706	26.02	-3.26	118442.920	3.0	222750.230	3.0
95.8777	27.02	-5.62	24236.800	1.5	128536.300	5.5
95.8780	25.02	-1.69	26824.400	5.5	131123.640	5.5
95.8797	25.02	-4.33	114209.010	3.5	218506.390	3.5
95.8836	25.01	-1.77	14959.840	0.0	119253.000	1.0
95.8843	26.02	-4.59	19404.800	2.0	123697.180	2.0
95.8852	26.02	-3.56	118442.920	3.0	222734.330	4.0
95.8882	27.02	-2.53	24236.800	1.5	128524.900	2.5
95.8906	25.02	-1.23	111776.600	1.5	216062.130	2.5
95.8963	25.02	-1.05	111883.600	2.5	216162.900	1.5
95.8975	25.02	-2.05	114094.970	1.5	218373.000	1.5
95.8977	27.02	-4.28	22720.300	5.5	126998.100	4.5
95.8979	26.02	-2.30	118557.250	5.0	222834.770	6.0
95.8990	26.02	-7.79	89334.510	2.0	193610.920	3.0
95.9001	26.02	-3.36	118557.250	5.0	222832.480	5.0
95.9025	25.02	-4.53	26851.100	4.5	131123.640	5.5
95.9034	26.02	-6.15	30088.840	3.0	134360.400	4.0
95.9035	26.02	-1.00	89334.510	2.0	193605.990	2.0
95.9081	26.02	-1.91	20688.400	1.0	124954.880	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
96.0745	25.02	-2.15	114094.970	1.5	218180.900	1.5	96.3495	9.02	-4.24	360435.080	1.5	464223.930	1.5
96.0752	25.02	-1.45	114287.910	2.5	218373.000	1.5	96.3522	28.01	-7.16	25036.380	2.5	128822.230	1.5
96.0765	28.02	-2.92	14031.600	2.0	118115.300	2.0	96.3542	26.02	-4.49	125637.980	3.0	229421.730	4.0
96.0799	26.02	-3.45	30857.800	3.0	134937.840	2.0	96.3568	27.02	-2.98	22720.300	5.5	126501.300	5.5
96.0802	26.02	-2.84	118686.250	4.0	222765.970	4.0	96.3570	26.02	-3.10	21857.200	2.0	125637.980	3.0
96.0883	25.02	-3.07	26824.400	5.5	130895.390	4.5	96.3578	25.02	-3.47	11883.600	2.5	215663.500	3.5
96.0929	26.02	-4.53	125443.580	4.0	229509.560	3.0	96.3583	25.02	-2.03	114287.910	2.5	218067.190	2.5
96.0932	28.01	-6.41	24788.200	1.5	128853.870	2.5	96.3596	25.02	-2.56	112645.310	.5	216423.250	.5
96.0947	26.02	-2.79	118686.250	4.0	222750.230	3.0	96.3609	15.01	-2.24	164.800	1.0	103941.300	0.0
96.0998	26.02	-2.82	118686.250	4.0	222744.790	5.0	96.3622	26.02	-5.09	25142.400	3.0	128917.510	2.0
96.1033	15.01	-1.48	0.000	0.0	104054.700	1.0	96.3699	28.01	-8.80	25036.380	2.5	128803.230	2.5
96.1040	26.02	-2.66	118557.250	5.0	222611.160	5.0	96.3704	27.02	-2.45	37021.000	3.5	140787.300	2.5
96.1052	26.02	-4.41	118721.600	2.0	222774.220	2.0	96.3791	15.01	.23	0.000	0.0	103756.900	1.0
96.1090	26.02	-3.67	118557.250	5.0	222605.820	4.0	96.3807	27.02	-2.06	22720.300	5.5	126475.500	6.5
96.1094	26.02	-2.55	118686.250	4.0	222734.330	4.0	96.3822	26.02	-3.33	122628.340	2.0	226381.910	3.0
96.1120	26.02	-3.87	118557.250	5.0	222602.500	6.0	96.3889	26.02	-1.56	21208.500	0.0	124954.880	1.0
96.1128	26.02	-4.45	118721.600	2.0	222766.040	3.0	96.3914	26.02	-2.86	21699.900	3.0	125443.580	4.0
96.1129	25.02	-1.62	26851.100	4.5	130895.390	4.5	96.3915	25.02	-4.10	111776.600	1.5	215520.220	2.5
96.1180	26.02	-7.23	40999.870	2.0	145038.610	3.0	96.3955	23.02	-2.53	56256.750	1.5	159996.000	2.5
96.1202	26.02	-4.82	82846.590	4.0	186882.980	3.0	96.3991	7.00	-1.46	0.000	1.5	103735.450	2.5
96.1210	25.02	-1.63	26859.900	3.5	130895.390	4.5	96.4010	9.02	-3.64	387726.840	4.5	491460.250	5.5
96.1224	28.01	-8.12	24788.200	1.5	128822.230	1.5	96.4041	25.02	-5.90	29167.700	2.5	132897.740	2.5
96.1237	25.02	-1.69	114094.970	1.5	218127.590	.5	96.4043	25.02	-1.73	29207.300	.5	132937.060	.5
96.1274	26.02	-4.67	118721.600	2.0	222750.230	3.0	96.4087	15.01	.75	8882.600	2.0	112607.700	2.0
96.1277	28.01	-3.20	8393.900	4.5	112422.190	5.5	96.4129	26.02	-4.96	63486.780	4.0	167207.300	4.0
96.1278	25.02	-2.86	111883.600	2.5	215911.730	1.5	96.4203	25.02	-2.12	114094.970	1.5	217807.570	1.5
96.1323	28.01	-3.29	13550.390	3.5	117573.680	4.5	96.4321	12.02	-4.42	478374.500	1.0	582074.400	2.0
96.1420	26.02	-3.26	118686.250	4.0	222699.090	5.0	96.4352	25.02	-4.25	111776.600	1.5	215473.200	1.5
96.1432	28.01	-8.18	24788.200	1.5	128799.020	.5	96.4361	28.01	-9.03	25036.380	2.5	128732.030	1.5
96.1490	25.02	-4.14	114501.180	4.5	218506.390	3.5	96.4361	25.02	-1.30	29241.400	1.5	132937.060	.5
96.1498	25.02	-1.76	112057.800	3.5	216062.130	2.5	96.4402	26.02	-3.18	30857.800	3.0	134549.000	3.0
96.1512	17.01	.39	11653.500	2.0	115656.400	1.0	96.4437	25.02	-3.86	114287.910	2.5	217975.300	2.5
96.1589	12.02	-4.59	479456.000	1.0	583450.500	1.0	96.4626	7.00	-1.64	0.000	1.5	103657.130	1.5
96.1593	26.02	-3.00	42896.900	3.0	146891.040	3.0	96.4660	26.02	-2.22	122843.030	1.0	226506.540	1.0
96.1598	12.02	-4.34	478846.100	2.0	582839.700	3.0	96.4668	26.02	-1.81	30886.400	4.0	134549.000	3.0
96.1611	25.02	-1.86	111883.600	2.5	215875.730	2.5	96.4706	28.01	-8.68	29070.930	1.5	132729.480	2.5
96.1613	28.01	-1.53	9330.040	3.5	113321.950	4.5	96.4726	25.02	-7.13	29241.400	1.5	132897.740	2.5
96.1623	25.02	-4.69	114094.970	1.5	218085.880	.5	96.4733	23.03	-2.99	42462.100	0.0	146117.700	1.0
96.1658	25.02	-3.50	39174.400	5.5	143161.500	4.5	96.4757	28.01	-4.89	0.000	2.5	103653.030	3.5
96.1711	26.02	-1.48	21462.200	4.0	125443.580	4.0	96.4908	25.02	-1.69	32307.300	3.5	135944.080	4.5
96.1741	26.02	-2.45	125443.580	4.0	229421.730	4.0	96.4910	25.02	-4.02	111883.600	2.5	215520.220	2.5
96.1789	26.02	-2.76	21699.900	3.0	125672.830	2.0	96.4931	25.02	-1.87	113078.340	1.5	216712.730	2.5
96.1795	25.02	-1.73	114094.970	1.5	218067.190	2.5	96.4938	15.01	.45	469.000	2.0	104102.600	2.0
96.1901	26.02	-.32	35803.700	2.0	139764.480	2.0	96.4967	28.01	-.75	23108.280	2.5	126738.820	1.5
96.2105	25.02	-2.06	111776.600	1.5	215715.410	1.5	96.4996	23.02	-3.06	56160.420	2.5	159787.800	1.5
96.2110	9.02	-4.41	387523.470	3.5	491461.650	4.5	96.5024	27.02	-1.46	37021.000	3.5	140645.400	3.5
96.2111	26.02	-1.77	21699.900	3.0	125637.980	3.0	96.5042	7.00	-2.03	0.000	1.5	103622.480	.5
96.2114	15.01	-.86	164.800	1.0	104102.600	2.0	96.5080	26.02	-1.66	122829.550	3.0	226447.880	2.0
96.2127	28.01	-1.74	10115.660	2.5	114052.040	3.5	96.5097	27.02	-2.18	23434.300	4.5	127050.800	4.5
96.2159	28.01	-2.69	1506.940	1.5	105439.850	1.5	96.5148	28.02	-2.42	16661.600	2.0	120272.700	1.0
96.2164	26.02	-4.02	125637.980	3.0	229570.360	2.0	96.5174	26.02	-3.62	82846.590	4.0	186454.890	5.0
96.2181	28.01	-9.67	29070.930	1.5	133001.470	.5	96.5179	26.02	-2.05	122898.840	2.0	226506.540	1.0
96.2197	27.02	-3.75	23058.800	2.5	126987.600	1.5	96.5198	25.02	-4.24	112057.800	3.5	215663.500	3.5
96.2208	28.01	-8.01	14995.570	2.5	118923.200	3.5	96.5206	26.02	-4.24	122843.030	1.0	226447.880	2.0
96.2233	26.02	-3.17	118686.250	4.0	222611.160	5.0	96.5281	28.01	-2.97	25993.460	.5	133190.190	1.5
96.2283	26.02	-3.78	118686.250	4.0	222605.820	4.0	96.5325	15.01	-.07	164.800	1.0	103756.900	1.0
96.2288	26.02	-4.60	118686.250	4.0	222605.240	3.0	96.5384	15.01	-.15	469.000	2.0	104054.700	1.0
96.2407	25.02	-3.75	114209.010	3.5	218115.150	3.5	96.5389	26.02	-2.29	122921.370	1.0	226506.540	1.0
96.2442	28.01	-7.94	14995.570	2.5	118897.940	2.5	96.5418	15.01	.78	469.000	2.0	104051.100	3.0
96.2471	25.02	-2.38	114501.180	4.5	218400.600	3.5	96.5468	28.01	-3.29	32499.530	4.5	136076.260	4.5
96.2487	26.02	-3.37	125672.830	2.0	229570.360	2.0	96.5485	28.02	-2.90	14031.600	2.0	117606.500	3.0
96.2529	25.02	-2.82	114287.910	2.5	218180.900	1.5	96.5524	26.02	-9.34	40999.870	2.0	144570.530	3.0
96.2537	25.02	-5.14	29167.700	2.5	133059.840	3.5	96.5551	28.01	-5.14	14995.570	2.5	118563.390	3.5
96.2557	26.04	-4.75	188401.000	5.0	292291.000	5.0	96.5588	27.02	-4.69	23434.300	4.5	126998.100	4.5
96.2557	15.01	-.15	164.800	1.0	104054.700	1.0	96.5601	25.02	-4.81	32307.300	3.5	135869.760	3.5
96.2587	25.02	-2.02	112645.310	.5	216531.990	1.5	96.5648	27.02	-3.31	1451.300	2.5	105008.700	3.5
96.2587	9.02	-4.96	360435.080	1.5	464321.840	2.5	96.5692	28.01	-3.81	32523.540	3.5	136076.260	4.5
96.2618	27.02	-1.59	23434.300	4.5	127317.700	3.5	96.5695	26.02	-4.29	122829.550	3.0	226381.910	3.0
96.2635	28.01	-8.30	14995.570	2.5	118877.090	1.5	96.5702	25.02	-3.00	32307.300	3.5	135858.960	2.5
96.2646	25.02	-2.54	114094.970	1.5	217975.300	2.5	96.5724	26.02	-1.80	30716.200	2.0	134265.420	2.0
96.2647	25.02	-3.13	26851.100	4.5	130731.310	3.5	96.5726	26.02	-2.75	122898.840	2.0	226447.880	2.0
96.2655	26.02	-.66	34812.400	0.0	138691.810	1.0	96.5814	26.02	-3.77	30725.800	1.0	134265.420	2.0
96.2663	28.01	-9.32	14995.570	2.5	118874.110	3.5	96.5853	28.01	-2.38	23796.180	1.5	127331.600	2.5
96.2666	26.02	-2.11	122628.340	2.0	226506.540	1.0	96.5882	26.02	-4.24	82846.590	4.0	186378.940	4.0
96.2679	26.02	-1.59	35803.700	2.0	139680.470	3.0	96.5894	23.02	-3.04	56256.750	1.5	159787.800	1.5
96.2690	9.02	-3.76	360348.280	.5	464223.930	1.5	96.5936	26.02	-3.01	122921.370	1.0	226447.880	2.0
96.2701	25.02	-3.63	114501.180	4.5	218375.610	4.5	96.6000	25.02	-2.72	114287.910	2.5	217807.570	1.5
96.2709	25.02	-.71	26857.800	2.5	130731.310	3.5	96.6005	27.02	-2.01	22720.300	5.5	126239.400	4.5
96.2727	26.02	-2.77	125637.98										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	FLEM	LOGGF	ELO	JLO	EUP	JUP
96.6882	25.02	-2.54	32307.300	3.5	135732.500	4.5	97.1608	26.02	-2.87	89084.790	3.0	192006.940	2.0
96.6887	26.02	-4.58	19404.800	2.0	122829.550	3.0	97.1729	27.02	-2.05	37316.500	2.5	140225.800	3.5
96.6934	9.03	-7.77	456884.300	1.0	560304.000	2.0	97.1737	8.00	-3.18	0.000	2.0	102908.501	1.0
96.7047	26.02	-2.11	30857.800	3.0	134265.420	2.0	97.1737	8.00	-2.01	0.000	2.0	102908.455	2.0
96.7076	9.02	-4.52	387726.840	4.5	491131.370	4.5	97.1738	8.00	-1.27	0.000	2.0	102908.386	3.0
96.7094	25.02	-3.09	32307.300	3.5	135709.000	2.5	97.1763	24.02	-1.30	25848.200	1.0	128753.900	2.0
96.7194	26.02	-7.70	21462.200	4.0	124854.040	3.0	97.1864	27.02	-2.16	37316.500	2.5	140211.600	2.5
96.7213	28.01	-3.05	8393.900	4.5	111783.790	3.5	97.1865	26.02	-1.98	123552.950	1.0	226447.880	2.0
96.7242	27.02	-2.19	0.000	4.5	103386.700	4.5	97.1897	8.02	-1.97	267632.590	2.0	370524.400	2.0
96.7260	25.02	-3.63	32307.300	3.5	135692.170	3.5	97.1930	26.02	-1.40	35803.700	2.0	138691.810	1.0
96.7272	28.01	-3.88	14995.570	2.5	118379.110	2.5	97.1972	27.02	-3.39	37316.500	2.5	140200.100	1.5
96.7401	24.02	-1.78	17395.500	5.0	120765.300	5.0	97.1998	25.02	-3.63	113676.530	2.5	216557.380	3.5
96.7474	27.02	-1.58	37021.000	3.5	140382.900	3.5	97.2033	28.01	-2.81	14995.570	2.5	117872.780	2.5
96.7564	24.02	-3.37	17395.500	5.0	120747.800	4.0	97.2110	2.01	-1.19	329182.203	0.0	432051.220	0.0
96.7634	25.02	-1.86	113078.340	1.5	216423.250	5.5	97.2142	8.00	-5.65	0.000	2.0	102865.667	1.0
96.7646	28.01	-3.37	13550.390	3.5	116893.980	2.5	97.2142	8.00	-3.81	0.000	2.0	102865.618	2.0
96.7704	27.02	-1.08	37021.000	3.5	140358.400	4.5	97.2143	8.00	-2.80	0.000	2.0	102865.559	3.0
96.7783	27.02	-2.10	37316.500	2.5	140645.400	3.5	97.2145	23.02	-2.47	56922.500	2.5	159787.800	1.5
96.7802	23.02	-1.07	56669.050	1.5	159996.000	2.5	97.2152	26.02	-4.14	20688.400	1.0	123552.950	1.0
96.7806	16.02	-2.41	832.500	2.0	104159.000	2.0	97.2163	6.01	-6.64	74930.100	2.5	177793.540	1.5
96.7809	25.02	-3.08	32383.700	2.5	135709.900	2.5	97.2170	9.03	-1.64	456884.300	1.0	559747.000	0.0
96.7815	25.02	-4.63	113078.340	1.5	216403.860	2.5	97.2171	25.02	-1.11	32383.700	2.5	135246.270	2.5
96.7818	25.02	-2.48	32384.700	1.5	135709.900	2.5	97.2180	25.02	-2.07	32384.700	1.5	135246.270	2.5
96.7839	27.02	-2.42	32058.800	2.5	126381.800	1.5	97.2187	6.01	-1.59	74932.620	1.5	177793.540	1.5
96.7874	29.01	-3.14	21928.600	3.0	125247.800	2.0	97.2205	28.01	-3.34	25036.380	2.5	127895.330	3.5
96.7975	25.02	-3.51	32383.700	2.5	135692.170	3.5	97.2225	15.01	-1.61	21576.200	0.0	124433.100	1.0
96.8035	29.01	-1.82	21928.600	3.0	125230.600	3.0	97.2238	25.02	-1.52	113676.530	2.5	216531.990	1.5
96.8075	8.02	-4.12	300228.210	0.0	403526.000	1.0	97.2266	29.01	-2.56	26264.400	2.0	129116.900	3.0
96.8102	28.02	-1.25	16977.800	1.0	120272.700	1.0	97.2293	24.02	-4.54	17850.000	2.0	120699.700	3.0
96.8115	16.01	-6.67	14853.000	1.5	118146.500	1.5	97.2300	3.01	-1.94	494273.000	0.0	597121.915	0.0
96.8136	12.02	-4.39	479456.000	1.0	582747.300	2.0	97.2366	6.01	-8.89	74932.620	1.5	177774.590	5.5
96.8168	15.01	-1.69	469.000	2.0	103756.900	1.0	97.2381	9.00	-3.78	0.000	5.5	102840.376	5.5
96.8194	25.02	-1.67	113676.530	2.5	216961.620	3.5	97.2443	9.03	-6.66	542681.200	2.0	645515.000	3.0
96.8300	28.01	-3.23	13550.390	3.5	116824.150	2.5	97.2447	25.02	-2.84	113078.340	1.5	215911.730	1.5
96.8350	26.02	-4.96	20481.900	4.0	123750.390	3.0	97.2499	25.02	-3.26	112645.310	5.5	215473.200	1.5
96.8354	8.02	-4.40	267632.590	2.0	370900.600	2.0	97.2514	21.02	-2.37	25536.700	5.5	128363.000	1.5
96.8369	25.02	-4.44	112645.310	5.5	215911.730	1.5	97.2550	25.01	-7.71	14325.860	4.0	117148.300	5.0
96.8413	16.01	-1.99	14884.800	2.5	118146.500	1.5	97.2602	26.02	-3.19	121241.670	4.0	224058.700	4.0
96.8443	23.02	-1.46	56529.300	5.5	159787.800	1.5	97.2613	23.02	-5.86	145.500	2.5	102961.280	3.5
96.8556	28.01	-2.86	32499.530	4.5	135746.060	3.5	97.2650	25.01	-1.58	14325.860	4.0	117137.800	4.0
96.8570	27.02	-4.52	0.000	4.5	103245.000	5.5	97.2668	26.02	-2.11	121241.670	4.0	224051.630	3.0
96.8650	24.02	-2.28	17528.800	6.0	120765.300	5.0	97.2674	26.02	-2.57	123697.180	2.0	226506.540	1.0
96.8727	12.02	-4.84	478846.100	2.0	582074.400	2.0	97.2711	28.02	-1.56	75646.900	4.0	178452.400	3.0
96.8771	26.02	-2.43	19404.800	2.0	122628.340	2.0	97.2714	27.02	-4.13	23434.300	4.5	126239.400	4.5
96.8781	28.01	-1.81	32523.540	3.5	135746.060	3.5	97.2770	15.01	-2.88	0.000	0.0	102799.200	1.0
96.8792	27.02	-2.64	24236.800	1.5	127458.100	1.5	97.2784	27.02	-2.09	37021.000	3.5	139818.700	3.5
96.8810	28.02	-2.94	14031.600	2.0	117251.000	3.0	97.2787	25.02	-1.22	113078.340	1.5	215875.730	2.5
96.8947	27.02	-1.91	37021.000	3.5	140225.800	3.5	97.2790	26.02	-3.64	121241.670	4.0	224038.730	5.0
96.8955	26.02	-1.06	21699.900	3.0	124903.920	2.0	97.2922	8.02	-2.38	267632.590	2.0	370415.700	1.0
96.8960	25.02	-3.11	32307.300	3.5	135510.700	2.5	97.3043	25.02	-7.79	114501.180	4.5	217271.590	4.5
96.9081	27.02	-2.81	37021.000	3.5	140211.600	2.5	97.3062	28.01	-3.31	14995.570	2.5	117763.910	1.5
96.9182	26.02	-3.32	126390.570	1.0	229570.360	2.0	97.3070	26.02	-2.65	20688.400	1.0	123455.920	0.0
96.9353	15.01	-6.37	469.000	2.0	103630.600	2.0	97.3103	28.01	-2.94	29070.930	1.5	131834.940	2.5
96.9383	8.02	-2.58	267527.290	0.0	370415.700	1.0	97.3211	25.02	-1.13	114209.010	3.5	216961.620	3.5
96.9414	23.02	-1.46	56529.300	5.5	159684.400	5.5	97.3212	27.02	-2.28	841.200	3.5	103593.700	2.5
96.9422	28.01	-2.88	29070.930	1.5	132225.150	1.5	97.3217	17.03	-4.73	0.000	0.0	102752.000	1.0
96.9423	26.02	-1.59	21699.900	3.0	124854.040	3.0	97.3228	27.02	-3.84	24236.800	1.5	126987.600	1.5
96.9476	8.02	-2.53	267375.650	1.0	370524.400	2.0	97.3229	26.02	-2.40	123697.180	2.0	226447.880	2.0
96.9555	26.02	-3.30	126390.570	1.0	229530.670	1.0	97.3234	8.00	-2.01	158.265	1.0	102908.501	1.0
96.9651	25.02	-1.17	29167.700	2.5	132297.550	2.5	97.3234	8.00	-1.54	158.265	1.0	102908.455	2.0
96.9678	25.02	-1.95	32383.700	2.5	135510.700	2.5	97.3248	26.02	-2.33	34812.400	0.0	137561.100	1.0
96.9688	25.02	-3.72	32384.700	1.5	135510.700	2.5	97.3305	28.01	-3.67	0.000	2.5	102742.740	1.5
96.9710	24.02	-9.96	25725.800	3.0	128849.400	4.0	97.3396	25.02	-2.72	32383.700	2.5	135116.800	1.5
96.9756	23.02	-1.36	56669.050	1.5	159787.800	1.5	97.3406	25.02	-4.38	32384.700	1.5	135116.800	1.5
96.9791	27.02	-3.29	23434.300	4.5	126549.300	3.5	97.3451	25.02	-3.42	113676.530	2.5	216403.860	2.5
96.9912	17.00	-2.21	0.000	1.5	103102.120	1.5	97.3469	28.01	-2.00	13550.390	3.5	116275.810	3.5
96.9919	17.00	-1.16	0.000	1.5	103101.340	2.5	97.3498	27.02	-3.92	37021.000	3.5	139743.400	2.5
96.9954	26.02	-1.46	21857.200	2.0	124954.880	1.0	97.3504	29.01	-3.69	22846.970	2.0	125568.700	1.0
97.0077	25.02	-2.79	113078.340	1.5	216162.900	1.5	97.3506	26.02	-8.81	42896.900	3.0	145618.390	2.0
97.0181	23.02	-1.46	56922.500	2.5	159996.000	2.5	97.3552	25.02	-3.59	43674.700	1.5	146391.300	5.5
97.0213	25.02	-1.94	112645.310	5.5	215715.410	1.5	97.3588	25.02	-2.18	32404.000	5.5	135116.800	1.5
97.0243	27.02	-2.61	23434.300	4.5	126501.300	5.5	97.3639	8.00	-6.55	158.265	1.0	102865.691	0.0
97.0248	27.02	-1.20	37316.500	2.5	140382.900	3.5	97.3640	8.00	-4.26	158.265	1.0	102865.667	1.0
97.0284	25.02	-1.48	114209.010	3.5	217271.590	4.5	97.3640	8.00	-3.28	158.265	1.0	102865.618	2.0
97.0342	24.02	-2.21	25725.800	3.0	128782.200	3.0	97.3698	27.02	-2.92	22720.300	5.5	125421.600	4.5
97.0345	25.02	-1.00	29241.400	1.5	132297.550	2.5	97.3734	26.02	-2.94	123750.390	3.0	226447.880	2.0
97.0397	26.02	-2.64	123455.920	0.0	226506.540	1.0	97.3743	26.02	-4.99	30088.840	3.0	132785.360	4.0
97.0405	28.01	-2.61	29070.930	1.5	132120.700	5.5	97.3775	23.02	-5.44	341.500	3.5	103034.650	4.5
97.0434	26.02	-1.82	21857.200	2.0	124903.920	2.0	9						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
97.4575	9.03	-0.65	542583.200	3.0	645192.000	2.0	97.8778	27.02	-3.27	23058.800	2.5	125227.000	3.5
97.4592	25.02	-2.18	113676.530	2.5	216283.580	3.0	97.8797	26.02	-2.50	18581.600	4.0	120747.800	4.0
97.4676	29.01	-1.74	26264.400	2.0	128853.300	2.0	97.8908	26.02	-2.84	20688.400	1.0	122843.030	1.0
97.4888	27.02	-3.50	22720.300	5.5	125296.200	5.5	97.9000	27.02	-3.20	24236.800	1.5	126381.800	1.5
97.4941	26.02	-4.32	30088.840	3.0	132659.170	4.0	97.9025	27.02	-4.05	1451.300	2.5	103593.700	2.5
97.4945	26.02	-3.54	121468.820	5.0	224038.730	5.0	97.9032	26.02	-0.83	42896.900	3.0	145038.610	3.0
97.5012	7.01	-1.21	109216.600	1.0	211779.450	1.0	97.9058	26.02	-1.95	121919.740	3.0	224058.700	4.0
97.5021	7.01	-1.05	109217.600	2.0	211779.450	1.0	97.9066	17.00	-2.88	0.000	1.5	102138.110	5.5
97.5078	27.02	-2.23	22720.300	5.5	125276.200	6.5	97.9123	25.02	-0.84	117063.740	4.5	219195.950	4.5
97.5078	7.01	-1.11	109223.500	0.0	211779.450	1.0	97.9126	26.02	-0.93	121919.740	3.0	224051.630	3.0
97.5177	27.02	-3.35	841.200	3.5	103386.700	4.5	97.9186	25.02	-1.20	116851.690	3.5	218977.340	3.5
97.5191	25.01	-0.88	14593.820	3.0	117137.800	4.0	97.9191	25.02	-3.71	116580.170	1.5	218705.250	2.5
97.5197	28.01	-2.82	24788.200	1.5	127331.600	2.5	97.9194	25.02	-1.39	116692.140	2.5	218816.970	2.5
97.5223	25.02	-1.64	113991.310	5.5	216531.990	1.5	97.9258	24.02	-3.17	18581.600	4.0	120699.700	3.0
97.5258	28.01	-1.84	13550.390	3.5	116087.380	4.5	97.9265	26.02	-0.83	121941.290	4.0	224058.700	4.0
97.5286	25.02	-2.03	29167.700	2.5	131701.690	1.5	97.9279	25.02	-2.67	114287.910	2.5	216403.860	2.5
97.5298	7.01	-1.13	109216.600	1.0	211749.350	0.0	97.9333	26.02	-2.38	121941.290	4.0	224051.630	3.0
97.5351	28.01	-2.48	29593.460	5.5	132120.700	5.5	97.9345	26.02	-2.16	121949.620	5.0	224058.700	4.0
97.5462	26.02	-1.24	89491.390	1.0	192006.940	2.0	97.9347	17.00	-2.79	0.000	1.5	102108.840	1.5
97.5468	26.02	-6.16	19404.800	2.0	121919.740	3.0	97.9384	26.02	-2.79	82846.590	4.0	184951.620	3.0
97.5507	9.03	-1.40	542681.200	2.0	645192.000	2.0	97.9448	25.02	-0.62	114209.010	3.5	216307.290	4.5
97.5567	26.02	-2.12	120826.170	2.0	223330.710	3.0	97.9456	26.02	-1.91	121941.290	4.0	224038.730	5.0
97.5574	25.02	-1.22	114209.010	3.5	216712.730	2.5	97.9531	12.03	-1.72	612240.300	1.5	714330.000	5.5
97.5586	25.02	-3.61	113078.340	1.5	215580.870	5.5	97.9536	26.02	-0.71	121949.620	5.0	224038.730	5.0
97.5589	27.02	-2.16	37316.500	2.5	139818.700	3.5	97.9536	8.02	-0.84	300440.850	2.0	402530.000	3.0
97.5594	26.02	-2.66	120826.170	2.0	223327.870	2.0	97.9537	26.02	-4.98	121241.670	4.0	223330.710	3.0
97.5663	25.02	-1.51	29207.300	5.5	131701.690	1.5	97.9537	25.02	-1.53	116580.170	1.5	218669.260	1.5
97.5695	16.05	-1.16	401621.000	1.5	504112.000	5.5	97.9575	26.02	-3.15	121241.670	4.0	223326.760	4.0
97.5712	26.02	-2.67	49148.000	0.0	151637.300	1.0	97.9584	28.02	-0.61	16661.600	2.0	118745.700	3.0
97.5740	25.02	-2.70	113676.530	2.5	216162.900	1.5	97.9625	25.02	-1.47	29207.300	5.5	131287.180	5.5
97.5869	25.02	-0.97	113676.530	2.5	216149.320	3.5	97.9626	26.02	-2.31	120697.100	1.0	222776.890	1.0
97.5901	12.02	-4.70	479265.300	0.0	581734.700	1.0	97.9651	26.02	-2.61	120697.100	1.0	222774.220	2.0
97.5969	26.02	-2.61	20481.900	4.0	122944.150	4.0	97.9672	23.02	-6.67	0.000	1.5	102075.000	2.5
97.5976	25.02	-1.87	114209.010	3.5	216670.580	4.5	97.9676	25.02	-0.86	114209.010	3.5	216283.580	3.5
97.5986	25.02	-1.35	114501.180	4.5	216961.620	3.5	97.9704	26.02	-1.67	42896.900	3.0	144968.500	4.0
97.5988	25.02	-1.24	29241.400	1.5	131701.690	1.5	97.9740	25.02	-1.93	114094.970	1.5	216162.900	1.5
97.6050	28.01	-2.24	9330.040	3.5	111783.790	3.5	97.9742	26.02	-1.92	121241.670	4.0	223309.370	5.0
97.6078	23.02	-5.76	583.800	4.5	103034.650	4.5	97.9790	28.01	-8.57	29070.930	1.5	131133.580	2.5
97.6163	25.02	-2.62	113078.340	1.5	215520.220	2.5	97.9804	26.02	-2.41	120697.100	1.0	222758.280	2.0
97.6210	25.02	-3.25	114094.970	1.5	216531.990	1.5	97.9812	26.02	-4.37	49576.900	1.0	151637.300	1.0
97.6217	9.00	-4.36	404.100	1.5	102840.376	5.5	97.9852	25.02	-0.99	114501.180	4.5	216557.380	3.5
97.6258	25.02	-2.17	113991.310	5.5	216423.250	5.5	97.9863	9.02	-1.80	395268.130	1.5	497323.250	2.5
97.6306	27.02	-3.08	37316.500	2.5	139743.400	2.5	97.9907	26.02	-3.31	21699.900	3.0	123750.390	3.0
97.6326	25.02	-2.03	114287.910	2.5	216712.730	2.5	97.9908	27.02	-3.49	1451.300	2.5	103501.700	3.5
97.6452	17.00	-3.16	0.000	1.5	102411.570	5.5	97.9952	25.02	-1.95	29241.400	1.5	131287.180	5.5
97.6521	25.02	-2.22	32384.700	1.5	134789.080	5.5	97.9954	27.02	-3.02	22720.300	5.5	124765.900	5.5
97.6555	29.01	-2.42	22846.970	2.0	125247.800	2.0	97.9999	25.02	-2.27	43602.500	3.5	145643.450	2.5
97.6589	25.02	-5.05	43668.840	2.5	146066.070	1.5	98.0019	25.02	-2.44	113676.530	2.5	217151.410	1.5
97.6612	25.02	-3.46	113078.340	1.5	215473.200	1.5	98.0082	28.01	-8.81	29070.930	1.5	131103.180	2.5
97.6645	25.02	-2.17	43674.700	1.5	146066.070	1.5	98.0147	11.00	-2.72	442710.500	1.5	544736.000	2.5
97.6700	25.02	-1.22	113676.530	2.5	216062.130	2.5	98.0242	28.01	-2.15	13550.390	3.5	115565.980	2.5
97.6705	25.02	-3.03	32404.000	4.5	134789.080	5.5	98.0266	25.02	-2.25	116692.140	2.5	218705.250	2.5
97.6713	26.02	-3.35	35803.700	2.0	138187.930	3.0	98.0346	28.01	-9.07	29070.930	1.5	131075.780	1.5
97.6719	29.01	-2.57	22846.970	2.0	125230.600	3.0	98.0377	9.00	-4.59	404.100	1.5	102405.710	2.5
97.6777	23.02	-5.34	583.800	4.5	102961.280	3.5	98.0389	17.00	-1.86	0.000	1.5	102000.360	1.5
97.7026	6.02	-0.09	0.000	0.0	102351.422	0.0	98.0396	14.02	-2.12	142943.740	3.0	244943.310	2.0
97.7055	25.02	-1.62	114209.010	3.5	216557.380	3.5	98.0416	14.02	-2.87	142945.840	2.0	244943.310	2.0
97.7062	26.02	-2.30	20481.900	4.0	122829.550	3.0	98.0418	26.02	-2.15	21699.900	3.0	123697.180	2.0
97.7093	26.02	-3.50	21208.500	0.0	123552.950	1.0	98.0434	25.02	-2.13	114287.910	2.5	216283.580	3.5
97.7094	25.02	-3.63	116851.690	3.5	219195.950	4.5	98.0440	14.02	-4.05	142948.250	1.0	244943.310	2.0
97.7229	15.01	-2.28	469.000	2.0	102799.200	1.0	98.0460	28.01	-9.20	29070.930	1.5	131063.850	5.5
97.7247	25.02	-1.65	114094.970	1.5	216423.250	5.5	98.0478	26.02	-9.52	30088.840	3.0	132079.910	3.0
97.7308	26.02	-2.53	121008.780	3.0	223330.710	3.0	98.0506	17.00	-1.99	0.000	1.5	101988.140	2.5
97.7335	26.02	-3.71	121008.780	3.0	223327.870	2.0	98.0512	14.02	-2.87	142945.840	2.0	244933.360	1.0
97.7345	26.02	-2.08	121008.780	3.0	223326.760	4.0	98.0514	27.02	-5.92	23434.300	4.5	125421.600	4.5
97.7380	28.02	-4.38	54657.900	4.0	156727.200	3.0	98.0517	25.02	-2.09	113676.530	2.5	215663.500	3.5
97.7415	27.02	-3.43	37316.500	2.5	139627.200	1.5	98.0535	14.02	-3.35	142948.250	1.0	244933.360	1.0
97.7419	27.02	-4.25	23058.800	2.5	125369.100	2.5	98.0580	14.02	-2.75	142948.250	1.0	244928.720	0.0
97.7467	29.01	-2.80	26264.400	2.0	128569.600	2.0	98.0612	25.02	-1.91	116692.140	2.5	216669.260	1.5
97.7555	17.03	-0.65	491.000	1.0	102787.000	2.0	98.0636	25.02	-2.08	43668.840	2.5	145643.450	2.5
97.7563	28.01	-3.97	25036.380	2.5	127331.600	2.5	98.0693	25.02	-3.14	43674.700	1.5	145643.450	2.5
97.7570	29.01	-1.81	26264.400	2.0	128558.900	3.0	98.0708	25.02	-2.84	114094.970	1.5	216062.130	2.5
97.7593	27.02	-4.16	22720.300	5.5	125012.400	4.5	98.0726	25.02	-1.88	116851.690	3.5	218816.970	2.5
97.7630	26.02	-2.34	21462.200	4.0	123750.390	3.0	98.0866	26.02	-2.77	120826.170	2.0	222776.890	1.0
97.7699	25.02	-3.49	116692.140	2.5	218977.340	3.5	98.0867	28.01	-0.88	24788.200	1.5	126738.820	1.5
97.7743	9.00	-2.93	404.100	1.5	102680.435	1.5	98.0892	26.02	-2.24	120826.170	2.0	222774.220	2.0
97.7791	26.02	-0.87	57221.700	4.0	159493.000	3.0	98.0919	17.00	-0.84	0.000	1.5	101945.200	5.5
97.7809	25.02	-3.79	114287.910	2.5	216557.380	3.5	98.0919	17.00	-1.14	0.000	1.5	101945.200	1.5
9													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
98.1759	26.02	-3.90	121468.820	5.0	223326.760	4.0	98.4880	26.02	-7.94	40999.870	2.0	142535.070	2.0
98.1766	28.01	-7.79	32523.540	3.5	134380.820	3.5	98.4902	25.02	-3.34	117063.740	4.5	218596.690	5.5
98.1802	25.02	-2.02	116851.690	3.5	218705.250	2.5	98.4938	17.00	-2.89	882.360	2.0	102411.570	3.5
98.1806	25.02	-2.42	114209.010	3.5	216062.130	2.5	98.4950	17.03	1.13	1341.000	2.0	102869.000	3.0
98.1878	17.00	-2.97	0.000	1.5	101845.640	1.5	98.4951	26.02	-2.39	124854.040	3.0	226381.910	3.0
98.1897	25.02	-2.81	113676.530	2.5	215520.220	2.5	98.4983	24.02	-2.46	575.000	4.0	102099.600	4.0
98.1927	26.02	-2.72	121468.820	5.0	223309.370	5.0	98.4985	26.02	-3.78	121241.670	4.0	222766.040	3.0
98.1933	26.02	-2.99	21857.200	2.0	123697.180	2.0	98.4986	26.02	-2.66	121241.670	4.0	222765.970	4.0
98.1996	26.02	-2.97	89084.790	3.0	190918.170	3.0	98.4990	25.02	-4.43	116851.690	3.5	218375.610	4.5
98.2043	28.01	-2.22	14995.570	2.5	116824.150	2.5	98.5062	28.01	-4.20	14995.570	2.5	116512.060	3.5
98.2087	27.02	-2.83	1866.800	1.5	103690.800	1.5	98.5062	11.02	-3.22	442710.500	1.5	544227.000	1.5
98.2112	8.02	-1.44	290956.620	1.0	392778.000	1.0	98.5062	11.02	-2.28	442710.500	1.5	544227.000	1.5
98.2157	25.02	-1.41	114094.970	1.5	215911.730	1.5	98.5114	24.02	-1.71	17528.800	6.0	119039.900	5.0
98.2181	25.02	-2.20	116692.140	2.5	218506.390	3.5	98.5139	26.02	-2.45	121241.670	4.0	222750.230	3.0
98.2259	25.02	-1.88	114501.180	4.5	216307.290	4.5	98.5142	26.02	-3.66	57221.700	4.0	158729.890	3.0
98.2285	17.00	-3.83	0.000	1.5	101803.442	2.5	98.5166	25.02	-2.41	116580.170	1.5	218085.880	5.5
98.2287	26.02	-1.98	121468.820	5.0	223272.060	6.0	98.5191	26.02	-2.29	121241.670	4.0	222744.790	5.0
98.2305	26.02	-3.73	30857.800	3.0	132659.170	4.0	98.5227	28.01	-3.33	29070.930	1.5	130570.420	5.5
98.2350	25.02	-3.89	113676.530	2.5	215473.200	1.5	98.5293	26.02	-2.06	121241.670	4.0	222734.330	4.0
98.2387	25.02	-3.03	116580.170	1.5	128373.000	1.5	98.5331	25.02	-2.75	116692.140	2.5	218180.900	1.5
98.2389	27.02	-3.78	23434.300	4.5	125227.000	3.5	98.5348	25.02	-2.98	116580.170	1.5	218067.190	2.5
98.2425	27.02	-4.61	1866.800	1.5	103655.700	1.5	98.5359	25.02	-3.69	114094.970	1.5	215580.870	3.5
98.2455	23.02	-5.24	0.000	1.5	101785.810	1.5	98.5397	26.02	-3.35	21462.200	4.0	122944.150	4.0
98.2488	25.02	-2.84	114501.180	4.5	216283.580	3.5	98.5397	25.02	-3.10	113991.310	4.5	215473.200	1.5
98.2504	25.02	-1.08	114094.970	1.5	215875.730	2.5	98.5435	26.02	-3.64	124903.920	2.0	226381.910	3.0
98.2520	26.02	-4.09	120826.170	2.0	222605.240	3.0	98.5448	8.02	-4.52	300310.310	1.0	401787.000	2.0
98.2567	25.02	-1.29	114287.910	2.5	216062.130	2.5	98.5535	26.02	-2.31	20481.900	4.0	121949.620	5.0
98.2581	26.02	-4.50	30886.400	4.0	132659.170	4.0	98.5609	17.00	-2.09	0.000	1.5	101460.160	1.5
98.2608	11.05	-3.42	1858.000	2.0	103628.000	2.0	98.5616	26.02	-1.78	20481.900	4.0	121941.290	4.0
98.2636	24.02	-3.38	17272.800	4.0	119039.900	5.0	98.5628	27.02	-5.14	37316.500	2.5	138774.700	2.5
98.2652	26.02	-2.72	121008.780	3.0	222774.220	2.0	98.5635	26.02	-2.79	121241.670	4.0	222699.090	5.0
98.2730	26.02	-2.98	35803.700	2.0	137561.100	1.0	98.5646	25.02	-2.73	116851.690	3.5	218307.980	2.5
98.2731	26.02	-3.31	121008.780	3.0	222766.040	3.0	98.5664	25.02	-2.56	114209.010	3.5	215663.500	3.5
98.2732	26.02	-2.21	121008.780	3.0	222765.970	4.0	98.5671	28.02	-3.38	16661.600	2.0	118115.500	2.0
98.2744	27.02	-2.82	24236.800	1.5	125992.700	2.5	98.5684	26.02	-3.55	50184.900	2.0	151637.300	1.0
98.2755	28.01	-3.00	0.000	2.5	101754.800	2.5	98.5687	28.01	-2.03	8393.900	4.5	109846.000	3.5
98.2765	27.02	-3.16	37021.400	3.5	138774.700	2.5	98.5709	28.01	-1.51	32523.540	3.5	133973.330	2.5
98.2861	24.02	-3.22	355.800	3.0	102099.600	4.0	98.5709	28.01	-2.79	13550.390	3.5	115000.250	3.5
98.2884	26.02	-2.11	121008.780	3.0	222750.230	3.0	98.5746	17.03	-1.11	1341.000	2.0	102787.000	2.0
98.2889	26.02	-3.40	35803.700	2.0	137544.600	2.0	98.5764	25.02	-5.22	32307.300	3.5	133751.500	3.5
98.2960	23.02	-4.21	341.500	3.5	102075.000	2.5	98.5779	25.02	-2.34	117063.740	4.5	218506.390	3.5
98.3015	25.02	-2.08	116580.170	1.5	218307.980	2.5	98.5825	26.02	-2.23	20481.900	4.0	121919.740	3.0
98.3024	27.02	-4.12	1866.800	1.5	103593.700	2.5	98.5850	26.02	-4.53	42896.900	3.0	144332.210	4.0
98.3037	26.02	-2.55	121008.780	3.0	222734.330	4.0	98.5926	25.02	-3.48	114287.910	2.5	215715.410	1.5
98.3039	17.00	-1.67	0.000	1.5	101725.370	1.5	98.5939	17.00	-5.72	0.000	1.5	101426.204	2.5
98.3051	25.02	-1.28	113991.310	4.5	215715.410	1.5	98.5948	25.02	-2.40	114094.970	1.5	215520.220	2.5
98.3160	26.02	-2.84	21208.500	0.0	122921.370	1.0	98.5965	26.02	-1.97	34812.400	0.0	136235.840	1.0
98.3167	26.02	-3.45	122346.610	3.0	224058.700	4.0	98.5967	26.02	-4.17	122628.340	2.0	224051.630	3.0
98.3180	20.02	-3.67	242547.190	2.0	344257.920	1.0	98.5970	25.02	-4.55	116692.140	2.5	218115.150	3.5
98.3202	25.02	-1.68	114209.010	3.5	215917.520	4.5	98.5985	26.02	-3.77	19404.800	2.0	120826.170	2.0
98.3204	25.02	-3.31	116692.140	2.5	218400.400	3.5	98.6000	13.01	-2.06	37392.000	0.0	138811.900	1.0
98.3236	26.02	-3.83	122346.610	3.0	224051.630	3.0	98.6002	12.03	-3.71	612240.300	1.5	173660.000	2.5
98.3261	28.01	-1.09	25036.380	2.5	126738.820	1.5	98.6021	26.02	-2.89	20051.100	6.0	121468.820	5.0
98.3325	26.02	-1.97	21857.200	2.0	123552.950	1.0	98.6034	25.02	-2.86	114501.180	4.5	215917.520	4.5
98.3353	25.02	-1.74	114501.180	4.5	216194.050	5.5	98.6086	17.03	-3.80	1341.000	2.0	102752.000	1.0
98.3432	28.01	-1.47	32523.540	3.5	134208.300	2.5	98.6087	26.02	-4.31	121919.740	3.0	223330.710	3.0
98.3469	25.02	-2.62	116692.140	2.5	218373.000	1.5	98.6114	26.02	-3.24	121919.740	3.0	223327.870	2.0
98.3494	26.02	-1.27	30886.400	4.0	132564.710	5.0	98.6125	26.02	-3.99	121919.740	3.0	223326.760	4.0
98.3539	26.02	-4.49	42896.900	3.0	144570.530	3.0	98.6221	8.03	-2.28	495169.000	1.5	596566.200	5.5
98.3592	28.01	-1.09	10115.660	2.5	111783.790	3.5	98.6241	25.02	-4.69	116580.170	1.5	217975.300	2.5
98.3606	25.02	-2.60	114209.010	3.5	215875.730	2.5	98.6295	24.02	-3.26	355.800	3.0	101745.300	3.0
98.3676	28.01	-1.38	13550.390	3.5	115209.850	3.5	98.6296	26.02	-3.20	121941.290	4.0	223330.710	3.0
98.3722	25.02	-1.31	116851.690	3.5	218506.390	3.5	98.6303	26.02	-3.22	30716.200	2.0	132104.940	2.0
98.3729	27.02	-3.28	37316.500	2.5	138970.500	1.5	98.6324	25.02	-4.93	43573.160	4.5	144959.740	4.5
98.3744	26.02	-1.14	34812.400	0.0	136464.900	1.0	98.6335	26.02	-3.99	121941.290	4.0	223326.760	4.0
98.3753	26.02	-1.54	128605.650	1.0	230257.150	2.0	98.6351	24.02	-4.82	59.900	1.0	101443.700	2.0
98.3779	26.02	-1.99	20300.800	5.0	121949.620	5.0	98.6358	25.02	-2.46	39174.400	5.5	140557.460	4.5
98.3786	25.02	-3.26	114501.180	4.5	216149.320	3.5	98.6396	26.02	-4.04	30725.800	1.0	132104.940	2.0
98.3810	23.02	-5.22	0.000	1.5	101645.610	5.5	98.6405	25.02	-3.00	114094.970	1.5	215473.200	1.5
98.3822	24.02	-2.87	17395.500	5.0	119039.900	5.0	98.6416	26.02	-3.64	121949.620	5.0	223326.760	4.0
98.3838	9.02	-4.91	389525.550	1.5	491168.250	2.5	98.6431	25.02	-2.18	114287.910	2.5	215663.500	3.5
98.3839	26.02	-1.90	128605.650	1.0	230248.260	1.0	98.6436	24.02	-1.60	116692.140	2.5	218067.190	2.5
98.3843	25.02	-3.07	32307.300	3.5	133949.540	4.5	98.6490	26.02	-3.48	121241.670	4.0	222611.160	5.0
98.3860	26.02	-1.14	20300.800	5.0	121941.290	4.0	98.6491	15.01	-3.00	8882.600	2.0	110252.000	1.0
98.3862	23.02	-4.46	145.500	2.5	101785.810	1.5	98.6504	26.02	-3.08	121941.290	4.0	223309.370	5.0
98.3909	26.02	-4.50	30356.200	6.0	131991.580	7.0	98.6507	25.02	-3.19	32383.700	2.5	133751.500	3.5
98.3918	26.02	-3.37	21208.500	0.0	122843.030	1.0	98.6511	26.02	-4.65	21462.200	4.0	122829.550	3.0
98.3980	29.01	-3.46	21928.600	3.0	123556.640	2.0	98.6542	26.02	-4.62	121241.670	4.0	222605.820	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
98.7354	13.02	-1.36	115958.500	1.5	217239.310	2.5	99.0164	26.02	-2.42	35803.700	2.0	136797.050	3.0
98.7359	28.01	-3.19	14995.570	2.5	116275.810	3.5	99.0196	26.02	-2.36	35803.700	2.0	136799.820	2.0
98.7401	26.02	-4.03	121468.820	5.0	222744.790	5.0	99.0227	26.02	-5.05	20481.900	4.0	121468.820	5.0
98.7407	26.02	-1.23	128917.510	2.0	230192.860	3.0	99.0238	26.02	-1.18	21857.200	2.0	122843.030	1.0
98.7411	8.03	-3.62	495169.000	1.5	596444.000	2.5	99.0240	16.01	-1.24	14884.800	2.5	115870.400	1.5
98.7495	8.03	-2.07	495246.100	2.5	596512.400	1.5	99.0255	26.02	-4.38	122346.610	3.0	223330.710	3.0
98.7503	26.02	-3.14	121468.820	5.0	222734.330	4.0	99.0294	26.02	-3.64	122346.610	3.0	223326.760	4.0
98.7514	8.02	-4.44	290956.620	1.0	392221.000	2.0	99.0325	28.01	-3.08	29593.460	5.0	130570.420	5.0
98.7523	25.02	-1.97	116851.690	3.5	218115.150	3.5	99.0370	26.02	-3.25	21857.200	2.0	122829.550	3.0
98.7539	24.02	-4.23	181.900	2.0	101443.700	2.0	99.0379	8.03	-2.66	495359.600	3.5	596331.000	3.5
98.7548	28.01	-3.10	29070.930	1.5	130331.780	1.5	99.0389	8.03	-1.74	495359.600	3.5	596330.000	2.5
98.7597	24.02	-1.20	17167.400	1.0	118423.300	2.0	99.0402	25.02	-5.96	32307.300	3.5	133276.400	4.5
98.7598	17.00	-2.58	882.360	5.0	102138.110	5.0	99.0438	11.02	-2.56	443261.600	5.0	544227.000	5.0
98.7642	9.02	-4.92	390210.430	3.5	491461.650	4.5	99.0438	11.02	-2.85	443261.600	5.0	544227.000	1.5
98.7658	29.01	-2.63	23998.220	1.0	125247.800	2.0	99.0445	26.02	-4.24	128605.650	1.0	229570.360	2.0
98.7682	26.02	-2.89	30857.800	3.0	132104.940	2.0	99.0452	16.01	-1.42	14853.000	1.5	115817.000	2.5
98.7698	26.02	-2.14	121468.820	5.0	222714.300	6.0	99.0459	17.00	-1.49	882.360	5.0	101845.640	1.5
98.7708	25.02	-1.52	43573.160	4.5	144817.680	3.5	99.0513	9.02	-4.43	390210.430	3.5	491168.250	2.5
98.7710	26.02	-4.37	21699.900	3.0	122944.150	4.0	99.0586	25.02	-1.71	43668.840	2.5	144619.190	1.5
98.7719	28.01	-2.09	9330.040	3.5	110573.360	2.5	99.0598	25.02	-5.03	43573.160	4.5	144522.300	4.5
98.7774	20.02	-4.56	242547.190	2.0	343784.960	1.0	99.0626	28.01	-0.96	32499.530	4.5	133445.750	4.5
98.7793	28.01	-2.98	1506.940	1.5	102742.740	1.5	99.0629	17.00	-2.26	0.000	1.5	100946.010	5.0
98.7824	13.01	-3.37	37579.300	2.0	138811.900	1.0	99.0639	28.02	-2.91	16661.600	2.0	117606.500	3.0
98.7824	13.01	-2.19	37579.300	2.0	138811.900	2.0	99.0643	25.02	-1.61	43674.700	1.5	144619.190	1.5
98.7824	13.01	-1.44	37579.300	2.0	138811.900	3.0	99.0679	26.02	-1.73	20300.800	5.0	121241.670	4.0
98.7827	25.02	-2.88	114287.910	2.5	215520.220	2.5	99.0704	26.02	-4.26	125443.580	4.0	226381.910	3.0
98.7847	26.02	-1.89	121468.820	5.0	222699.090	5.0	99.0764	16.01	-0.52	14884.800	2.5	115817.000	2.5
98.7858	26.02	-3.84	122829.550	3.0	224058.700	4.0	99.0785	16.03	-3.71	123053.900	5.0	224434.000	1.5
98.7873	17.00	-2.20	0.000	1.5	101227.630	5.0	99.0801	26.02	-1.01	21699.900	3.0	122628.340	2.0
98.7875	25.02	-1.68	116580.170	1.5	217807.570	1.5	99.0819	28.02	-4.74	56308.200	1.0	157234.800	1.0
98.7884	17.00	-3.49	882.360	5.0	102108.840	1.5	99.0835	26.02	-4.21	128605.650	1.0	229530.670	1.0
98.7898	26.02	-4.33	50412.300	2.0	151637.300	1.0	99.0837	7.00	-4.96	19224.464	2.5	120149.238	3.5
98.7915	17.00	-0.82	0.000	1.5	101223.330	2.5	99.0862	28.01	-3.15	32523.540	3.5	133445.750	4.5
98.7926	26.02	-3.08	30857.800	3.0	132079.910	3.0	99.0865	9.02	-3.92	390210.430	3.5	491132.380	3.5
98.7927	26.02	-4.67	122829.550	3.0	224051.630	3.0	99.0875	9.02	-2.49	390210.430	3.5	491131.370	4.5
98.7950	26.02	-2.23	42896.900	3.0	144116.640	3.0	99.0886	25.02	-4.07	43602.500	3.5	144522.300	4.5
98.7950	8.02	-4.03	300310.310	1.0	401530.000	2.0	99.0909	13.01	-1.93	37579.300	2.0	138496.700	1.0
98.7991	25.02	-0.85	116851.690	3.5	218067.190	2.5	99.0912	28.01	-3.80	29070.930	1.5	129988.050	2.5
98.7994	25.02	-1.22	43602.500	3.5	144817.680	3.5	99.1045	26.02	-2.81	121919.740	3.0	222823.330	4.0
98.8114	28.02	-4.58	55952.000	2.0	157154.900	2.0	99.1167	26.02	-2.86	121941.290	4.0	222832.480	5.0
98.8153	26.02	-0.86	21699.900	3.0	122898.840	2.0	99.1187	8.03	-1.84	495512.900	4.5	596402.000	3.5
98.8163	8.03	-2.56	495246.100	2.5	596444.000	2.5	99.1200	24.02	-1.49	17167.400	1.0	118055.200	1.0
98.8206	26.02	-4.15	30886.400	4.0	132079.910	3.0	99.1226	26.02	-3.28	121949.620	5.0	222834.770	6.0
98.8249	26.02	-1.27	42896.900	3.0	144085.970	4.0	99.1230	26.02	-0.30	24558.800	5.0	125443.580	4.0
98.8286	25.02	-4.61	114287.910	2.5	215473.200	1.5	99.1233	26.02	-0.85	21462.200	4.0	122346.610	3.0
98.8410	17.00	-1.59	0.000	1.5	101172.553	1.5	99.1249	26.02	-4.34	121949.620	5.0	222832.480	5.0
98.8432	24.02	-3.66	575.000	4.0	101745.300	3.0	99.1257	26.02	-4.00	121941.290	4.0	222823.330	4.0
98.8455	24.03	-2.96	158638.000	4.5	259806.000	5.0	99.1265	9.03	-2.59	460385.800	1.0	561267.000	1.0
98.8455	26.02	-4.01	20300.800	5.0	121468.820	5.0	99.1414	24.03	-3.00	158638.000	4.5	259504.000	4.5
98.8510	25.02	-4.43	114501.180	4.5	215663.500	3.5	99.1528	26.02	-4.30	121919.740	3.0	222774.220	2.0
98.8523	8.03	-0.49	495169.000	1.5	596330.000	2.5	99.1608	26.02	-4.05	121919.740	3.0	222766.040	3.0
98.8541	26.02	-4.71	128371.530	0.0	229530.670	1.0	99.1609	26.02	-4.45	121919.740	3.0	222765.970	4.0
98.8566	28.01	-8.56	29070.930	1.5	130227.520	2.5	99.1640	17.00	-2.14	882.360	5.0	101725.370	1.5
98.8573	8.03	-0.62	495246.100	2.5	596402.000	3.5	99.1684	26.02	-4.17	121919.740	3.0	222758.280	2.0
98.8603	26.02	-4.30	122898.840	2.0	224051.630	3.0	99.1764	26.02	-4.19	121919.740	3.0	222750.230	3.0
98.8627	8.03	-0.74	495359.600	3.5	596510.000	4.5	99.1797	16.03	-3.72	123503.900	5.0	224331.000	5.0
98.8642	25.02	-2.14	43668.840	2.5	144817.680	3.5	99.1820	26.02	-4.76	121941.290	4.0	222765.970	3.0
98.8643	12.03	-1.62	612240.300	1.5	713389.000	2.5	99.1821	26.02	-3.38	121941.290	4.0	222765.970	5.0
98.8706	26.02	-4.42	121468.820	5.0	222611.160	5.0	99.1824	26.02	-0.41	30886.400	4.0	131710.990	5.0
98.8708	8.03	-0.85	495512.900	4.5	596555.000	5.0	99.1885	8.03	-1.72	495512.900	4.5	596331.000	3.5
98.8753	28.02	-2.60	16977.800	1.0	118115.300	2.0	99.1895	29.01	-3.87	121928.600	3.0	122745.770	2.0
98.8790	26.02	-3.62	121468.820	5.0	222602.500	6.0	99.1920	26.02	-4.53	121919.740	3.0	222734.330	4.0
98.8804	27.02	-3.49	24236.800	1.5	125369.100	2.5	99.1976	26.02	-3.44	121941.290	4.0	222750.230	3.0
98.8830	26.02	-1.85	21699.900	3.0	122829.550	3.0	99.2029	26.02	-3.53	121941.290	4.0	222744.790	5.0
98.8862	28.01	-8.61	29070.930	1.5	130197.230	1.5	99.2111	26.02	-3.50	121949.620	5.0	222744.790	5.0
98.8889	25.02	-3.17	116851.690	3.5	217975.300	2.5	99.2132	26.02	-3.23	121941.290	4.0	222734.330	4.0
98.8944	17.00	-1.49	882.360	5.0	102000.360	1.5	99.2148	27.02	-1.79	37021.000	3.5	137812.400	3.5
98.8969	25.02	-1.03	116692.140	2.5	217807.570	1.5	99.2167	28.01	-3.05	14995.570	2.5	115785.060	1.5
98.8977	26.02	-3.69	122944.150	4.0	224058.700	4.0	99.2186	18.02	-5.32	14010.000	2.0	114797.600	1.0
98.8988	28.01	-9.16	29070.930	1.5	130184.390	2.5	99.2214	26.02	-3.44	121949.620	5.0	222734.330	4.0
98.9047	26.02	-2.94	122944.150	4.0	224051.630	3.0	99.2268	25.02	-5.16	32307.300	3.5	133086.570	4.5
98.9057	25.02	-1.05	39174.400	5.5	140280.800	4.5	99.2309	26.02	-4.96	125672.830	2.0	226447.880	2.0
98.9074	13.01	-2.63	37392.000	0.0	138496.700	1.0	99.2348	26.02	-2.00	21857.200	2.0	122628.340	2.0
98.9089	28.01	-9.35	29070.930	1.5	130174.030	1.5	99.2362	2.01	-0.99	329182.203	0.0	429951.882	0.0
98.9173	26.02	-4.93	122944.150	4.0	224038.730	5.0	99.2393	27.02	-4.32	24236.800	1.5	125003.300	2.5
98.9213	9.02	-3.48	390077.800	2.5	491168.250	2.5	99.2411	26.02	-3.05	121949.620	5.0	222714.300	6.0
98.9226	8.02	-4.47	300440.850	2.0	401530.000	2.0	99.2422	8.02	-1.51	338565.870	1.0	439329.500	2.0
98.9237	29.01	-2.89	21928.600	3.0	123016.630	3.0	99.2454	26.02	-1.74	57221.700	4.0	157982.000	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
99.3192	26.02	-3.36	121919.740	3.0	222605.240	3.0
99.3212	25.02	-2.03	39174.400	5.5	139857.840	4.5
99.3257	26.02	-5.17	30356.200	6.0	131035.070	7.0
99.3284	25.02	-4.28	32383.700	2.5	133059.840	3.5
99.3341	28.01	-1.17	32499.530	4.5	133169.920	3.5
99.3346	26.02	-3.54	121941.290	4.0	222611.160	5.0
99.3397	25.02	-3.09	32307.300	3.5	132971.990	3.5
99.3399	26.02	-3.55	121941.290	4.0	222605.820	4.0
99.3404	26.02	-4.49	121941.290	4.0	222605.240	3.0
99.3428	26.02	-3.98	121949.620	5.0	222611.160	5.0
99.3431	26.02	-1.81	35803.700	2.0	136464.900	1.0
99.3481	26.02	-4.82	121949.620	5.0	222605.820	4.0
99.3514	26.02	-3.79	128917.510	2.0	229570.360	2.0
99.3514	26.02	-3.89	121949.620	5.0	222602.500	6.0
99.3519	14.02	-1.05	52724.690	0.0	153377.050	1.0
99.3574	26.02	-2.23	21699.900	3.0	122346.610	3.0
99.3578	28.01	-1.73	32523.540	3.5	133169.920	3.5
99.3637	27.02	-4.39	37021.000	3.5	137661.400	4.5
99.3649	8.02	-2.24	338690.340	2.0	439329.500	2.0
99.3775	9.03	-2.51	460640.600	2.0	561267.000	1.0
99.3906	26.02	-4.41	128917.510	2.0	229530.670	1.0
99.3931	26.02	-4.08	82846.590	4.0	183457.150	4.0
99.3936	26.02	-2.77	82846.590	4.0	183456.690	3.0
99.3947	28.01	-2.95	0.000	2.5	100609.010	2.5
99.4069	28.01	-2.82	14995.570	2.5	115592.250	1.5
99.4080	25.01	-2.59	9472.970	2.0	110068.500	2.0
99.4114	26.02	-3.03	128917.510	2.0	229509.560	3.0
99.4130	25.02	-6.58	32307.300	3.5	132897.740	2.5
99.4141	28.02	-2.13	16661.000	2.0	117251.000	3.0
99.4141	17.00	-5.61	0.000	1.5	100589.312	2.5
99.4152	25.02	-2.62	32383.700	2.5	132971.990	3.5
99.4157	8.02	-1.51	338690.340	2.0	439278.100	1.0
99.4162	26.02	-4.45	30857.800	3.0	131445.030	2.0
99.4255	17.00	-2.82	882.360	.5	101460.160	1.5
99.4259	26.02	-1.11	19404.800	2.0	119982.260	1.0
99.4268	8.02	-1.87	267375.650	1.0	367952.200	1.0
99.4272	8.02	-1.20	338851.500	3.0	439427.600	3.0
99.4300	24.02	-1.35	17850.000	2.0	118423.300	2.0
99.4328	28.01	-2.08	14995.570	2.5	115565.980	2.5
99.4507	25.02	-1.66	32384.700	1.5	132937.060	.5
99.4698	25.02	-1.63	32404.000	.5	132937.060	.5
99.4724	26.02	-4.54	25142.400	3.0	125672.830	2.0
99.4759	26.02	-3.14	20481.900	4.0	121008.780	3.0
99.4790	14.02	-4.57	52853.280	1.0	153377.050	1.0
99.4814	25.01	-3.28	9472.970	2.0	109994.300	1.0
99.4825	9.02	-4.34	344436.960	.5	444957.110	1.5
99.4867	28.01	-1.15	9330.040	3.5	109846.000	3.5
99.4886	25.02	-4.48	32383.700	2.5	132897.740	2.5
99.4896	25.02	-3.91	32384.700	1.5	132897.740	2.5
99.4996	17.00	-1.46	0.000	1.5	100502.871	1.5
99.4998	26.02	-1.68	24940.900	4.0	125443.580	4.0
99.5009	28.01	-4.88	13550.390	3.5	114052.040	3.5
99.5065	27.02	-4.59	37316.500	2.5	137812.400	3.5
99.5069	26.02	-1.63	25142.400	3.0	125637.980	3.0
99.5130	26.02	-3.52	21857.200	2.0	122346.610	3.0
99.5149	26.02	-4.62	21462.200	4.0	121949.620	5.0
99.5175	26.02	-4.82	122843.030	1.0	223327.870	2.0
99.5232	26.02	-1.40	21462.200	4.0	121941.290	4.0
99.5243	8.02	-1.47	338851.500	3.0	439329.500	2.0
99.5263	14.03	-1.66	218266.860	.5	318742.790	.5
99.5322	26.02	-3.82	50184.900	2.0	150654.900	3.0
99.5326	26.02	-7.00	40999.870	2.0	141469.450	1.0
99.5355	26.02	-5.46	40999.870	2.0	141466.530	3.0
99.5438	24.02	-5.00	18581.600	4.0	119039.900	5.0
99.5444	29.01	-4.02	22846.970	2.0	123304.630	1.0
99.5444	28.01	-1.23	10115.660	2.5	110573.360	2.5
99.5445	26.02	-2.12	21462.200	4.0	121919.740	3.0
99.5454	28.01	-1.43	10663.890	1.5	111120.540	1.5
99.5471	24.03	-3.48	157942.000	3.5	258397.000	4.5
99.5590	26.02	-4.94	82001.730	2.0	182444.700	3.0
99.5697	26.02	-2.69	35803.700	2.0	136235.840	1.0
99.5742	26.02	-4.21	122346.610	3.0	222774.220	2.0
99.5819	25.02	-3.36	116851.690	3.5	212771.590	4.5
99.5823	26.02	-4.59	122346.610	3.0	222766.040	3.0
99.5824	26.02	-3.89	122346.610	3.0	222765.970	4.0
99.5859	28.02	-3.78	61339.200	4.0	161755.000	3.0
99.5969	26.02	-2.38	34812.400	0.0	135217.170	1.0
99.5980	26.02	-3.77	122346.610	3.0	222750.230	3.0
99.6010	26.02	-2.75	30356.200	6.0	130756.840	6.0
99.6011	16.01	.55	14884.800	2.5	115285.310	3.5
99.6024	26.02	-6.04	40999.870	2.0	141399.040	2.0
99.6051	26.02	-3.37	35803.700	2.0	136200.130	3.0
99.6080	24.02	-.69	17528.800	6.0	117922.300	7.0
99.6138	26.02	-4.18	122346.610	3.0	222734.330	4.0
99.6188	26.02	-4.29	122944.150	4.0	223326.760	4.0
99.6226	26.02	-2.96	50276.100	4.0	150654.900	3.0
99.6304	11.02	-3.25	414281.000	2.5	514652.000	2.5
99.6361	26.02	-4.36	122944.150	4.0	223309.370	5.0
99.6416	26.02	-1.83	50295.200	3.0	150654.900	3.0
99.6468	26.02	-4.74	123697.180	2.0	224051.630	3.0
99.6532	24.03	-3.17	159458.000	5.5	259806.000	5.5
99.6540	17.00	-1.08	0.000	1.5	100347.182	2.5
99.6559	17.00	-1.90	882.360	.5	101227.630	.5
99.6619	28.02	-6.14	14031.600	2.0	114370.800	2.0
99.6675	9.02	-4.26	390834.600	2.5	491168.250	2.5
99.6736	20.02	-3.53	243930.440	1.0	344257.920	1.0
99.6814	8.02	-1.64	267632.590	2.0	367952.200	1.0
99.6867	26.02	-4.41	35803.700	2.0	136117.940	2.0
99.6869	14.03	-1.35	218428.670	1.5	318742.790	.5
99.6926	26.02	-3.81	123750.390	3.0	224058.700	4.0
99.6997	26.02	-3.52	25142.400	3.0	125443.580	4.0
99.7031	9.02	-3.49	390834.600	2.5	491132.380	3.5
99.7080	26.02	-.64	19404.800	2.0	119697.640	2.0
99.7106	17.00	-1.49	882.360	.5	101172.553	1.5
99.7312	25.02	-3.53	116692.140	2.5	216961.620	3.5
99.7386	14.02	-.34	53115.010	2.0	153377.050	1.0
99.7510	17.00	-1.79	0.000	1.5	100249.636	2.5
99.7524	15.04	-1.10	204197.100	1.5	304445.300	1.5
99.7528	28.01	-3.11	1506.940	1.5	101754.800	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
99.7538	17.00	-2.43	0.000	1.5	100246.855	1.5
99.7580	26.02	-2.63	50412.300	2.0	150654.900	3.0
99.7592	26.02	-.73	21699.900	3.0	121941.290	4.0
99.7636	15.04	-.15	204208.300	2.5	304445.300	1.5
99.7806	26.02	-1.57	21699.900	3.0	121919.740	3.0
99.7811	20.02	-2.84	243930.440	1.0	344149.810	2.0
99.7862	28.01	-2.59	14995.570	2.5	115209.850	3.5
99.7926	25.02	-2.20	117063.740	4.5	212721.590	4.5
99.7946	11.02	-4.93	415173.200	1.5	515379.000	1.5
99.7952	24.02	-2.52	17850.000	2.0	118055.200	1.0
99.7954	26.02	-2.64	35803.700	2.0	136008.740	3.0
99.7978	28.01	-2.15	13550.390	3.5	113753.040	4.5
99.7992	15.02	-.62	0.000	.5	100201.200	.5
99.8065	9.02	-5.00	390976.350	1.5	491168.250	2.5
99.8293	17.00	-1.47	0.000	1.5	100170.980	1.5
99.8306	29.01	-3.73	22846.970	2.0	123016.630	3.0
99.8372	17.00	-1.49	882.360	.5	101045.386	1.5
99.8432	17.00	-2.64	882.360	.5	101039.413	.5
99.8509	28.02	-4.53	78303.100	2.0	178452.400	3.0
99.8517	26.02	-4.68	122628.340	2.0	222776.890	1.0
99.8530	24.02	-3.32	18451.000	2.0	118598.200	3.0
99.8541	23.02	-4.75	61777.150	1.5	161923.280	2.5
99.8543	26.02	-4.39	122628.340	2.0	222774.220	2.0
99.8624	26.02	-3.11	20688.400	1.0	120826.170	2.0
99.8625	26.02	-4.46	122628.340	2.0	222766.040	3.0
99.8676	25.02	-3.99	116580.170	1.5	216712.730	2.5
99.8702	26.02	-4.94	122628.340	2.0	222758.280	2.0
99.8757	28.01	-1.90	14995.570	2.5	115120.000	4.5
99.8783	26.02	-4.59	122628.340	2.0	222750.230	3.0
99.8842	26.02	-4.06	126390.570	1.0	226506.540	1.0
99.8876	28.01	-1.60	14995.570	2.5	115108.090	2.5
99.8902	25.02	-2.61	116851.690	3.5	216961.620	3.5
99.9081	24.02	-.80	17395.500	5.0	117487.500	6.0
99.9119	24.02	-1.72	18510.000	3.0	118598.200	3.0
99.9218	28.02	-5.78	14031.600	2.0	114109.900	3.0
99.9357	27.02	-3.58	23058.600	2.5	123123.100	1.5
99.9362	28.02	-5.86	14031.600	2.0	114095.400	1.0
99.9364	17.00	-2.07	882.360	.5	100946.010	.5
99.9370	16.05	.43	451785.000	1.5	551848.000	2.5
99.9375	26.02	-.79	21857.200	2.0	121919.740	3.0
99.9427	26.02	-3.60	126390.570	1.0	226447.880	2.0
99.9469	29.01	-3.95	21928.600	3.0	121981.680	2.0
99.9493						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
100.2047	23.02	-2.72	145.500	2.5	99941.200	3.5	100.5278	17.02	-0.42	0.000	1.5	99475.000	.5
100.2090	24.02	-3.22	17395.500	5.0	117186.900	5.0	100.5291	25.02	-1.65	43674.700	1.5	143148.400	1.5
100.2097	18.02	-2.42	14010.000	2.0	113800.700	2.0	100.5321	25.02	-4.06	116692.140	2.5	216162.900	1.5
100.2103	26.02	-3.95	122944.150	4.0	222734.330	4.0	100.5349	14.02	-0.33	142943.740	3.0	242411.700	4.0
100.2120	28.01	-1.33	32523.540	3.5	132311.980	4.5	100.5353	14.02	-1.40	142943.740	3.0	242411.270	3.0
100.2160	8.02	-0.21	20274.000	2.0	120058.500	1.0	100.5357	14.02	-2.94	142943.740	3.0	242410.880	2.0
100.2175	28.01	-9.48	29070.930	1.5	128853.870	2.5	100.5374	14.02	-0.49	142945.840	2.0	242411.270	3.0
100.2210	26.02	-3.36	21462.200	4.0	121241.670	4.0	100.5378	14.02	-1.40	142945.840	2.0	242410.880	2.0
100.2219	8.02	-4.59	20274.000	2.0	120052.600	2.0	100.5398	26.02	-2.11	19404.800	2.0	118867.870	1.0
100.2275	22.02	-0.24	38197.980	2.0	137971.000	2.0	100.5398	23.02	-1.86	341.500	3.5	99804.570	2.5
100.2286	25.02	-0.96	43573.160	4.5	143345.070	3.5	100.5403	14.02	-0.66	142948.250	1.0	242410.880	2.0
100.2290	28.01	-5.04	13550.390	3.5	113321.950	4.0	100.5458	25.02	-4.61	116692.140	2.5	216149.320	3.5
100.2298	24.02	-0.25	20994.600	5.0	120765.300	5.0	100.5458	23.02	-4.90	63303.120	4.5	162760.280	4.5
100.2332	26.02	-2.11	49148.000	0.0	148915.300	1.0	100.5474	25.02	-3.60	116851.690	3.5	216307.290	4.5
100.2346	17.00	-0.55	0.000	1.5	99765.906	2.5	100.5498	26.02	-7.99	40999.870	2.0	140453.100	3.0
100.2391	26.02	-2.34	25142.400	3.0	124903.920	2.0	100.5507	25.02	-1.50	43674.700	1.5	143127.000	.5
100.2416	24.03	-3.48	158638.000	4.5	258397.000	4.5	100.5513	8.02	-2.15	338851.500	3.0	438303.200	2.0
100.2430	26.02	-4.79	66464.640	3.0	166222.200	4.0	100.5570	11.02	-4.90	411963.900	1.5	511410.000	2.5
100.2457	26.02	-4.78	122944.150	4.0	222699.090	5.0	100.5631	23.02	-2.62	0.000	1.5	99440.100	2.5
100.2474	24.02	-1.29	20994.600	5.0	120747.800	4.0	100.5692	25.01	-0.86	14593.820	3.0	114027.800	4.0
100.2492	8.02	-4.44	20274.000	2.0	120025.400	3.0	100.5708	25.01	-1.41	14593.820	3.0	114026.300	3.0
100.2493	28.01	-9.19	29070.930	1.5	128822.230	1.5	100.5714	25.02	-3.09	116851.690	3.5	216283.580	3.5
100.2495	26.02	-6.91	40999.870	2.0	140750.980	2.0	100.5719	25.02	-4.67	39174.400	5.5	138605.800	6.5
100.2509	24.02	-1.80	17395.500	5.0	117145.200	5.0	100.5723	25.01	-2.43	14593.820	3.0	114024.800	2.0
100.2570	24.02	-2.67	355.800	3.0	100099.500	4.0	100.5740	25.02	-1.71	39176.500	6.5	138605.800	6.5
100.2581	25.02	-1.35	43602.500	3.5	143345.070	3.5	100.5751	25.02	-2.54	43668.840	2.5	134097.000	3.5
100.2634	8.02	-1.44	338565.870	1.0	438303.200	2.0	100.5768	22.02	-0.24	38063.500	1.0	137490.000	1.0
100.2637	26.02	-3.00	34812.400	0.0	134549.380	1.0	100.5848	28.01	-2.15	0.000	2.5	99418.610	3.5
100.2704	28.01	-2.40	10115.660	2.5	109846.000	3.5	100.5874	26.02	-1.66	42896.900	3.0	142312.900	3.0
100.2719	28.01	-9.24	29070.930	1.5	128799.720	.5	100.5900	26.02	-3.31	35803.700	2.0	135217.170	1.0
100.2892	26.02	-3.89	25142.400	3.0	124854.040	3.0	100.5956	17.00	-2.00	0.000	1.5	99407.907	.5
100.2895	17.00	-1.90	0.000	1.5	99711.309	.5	100.6016	11.02	-2.45	444825.000	2.5	544227.000	1.5
100.2952	25.02	-3.84	116851.690	3.5	216557.380	3.5	100.6094	16.01	-0.21	14884.800	2.5	114279.110	3.5
100.2960	8.02	-1.04	338690.340	2.0	438395.200	3.0	100.6218	15.03	-0.68	158138.200	2.0	257520.200	1.0
100.2962	28.01	-5.65	23108.280	2.5	122812.970	3.5	100.6221	12.03	-2.29	612240.300	1.5	711622.000	.5
100.2971	24.02	-1.87	17395.500	5.0	117099.300	4.0	100.6261	16.01	-0.11	14853.000	1.5	114230.750	2.5
100.2990	25.01	-1.55	14325.860	4.0	114027.800	4.0	100.6340	25.02	-3.84	116692.140	2.5	216062.130	2.5
100.3000	25.01	-0.69	14325.860	4.0	114026.800	5.0	100.6341	26.02	-1.35	30886.400	4.0	130256.270	5.0
100.3005	25.01	-2.73	14325.860	4.0	114026.300	3.0	100.6396	17.00	-1.30	882.360	.5	100246.855	1.5
100.3055	26.02	-4.53	114351.920	3.0	214047.380	4.0	100.6411	23.02	-2.24	145.500	2.5	99508.500	1.5
100.3067	24.02	-4.07	17272.800	4.0	116967.000	4.0	100.6429	9.03	-0.93	460385.800	1.0	559747.000	0.0
100.3075	26.02	-6.64	40999.870	2.0	140693.360	3.0	100.6468	23.02	-0.50	583.800	4.5	99941.200	3.5
100.3166	26.02	-1.91	30356.200	6.0	130040.560	7.0	100.6495	17.00	-1.21	0.000	1.5	99354.670	1.5
100.3191	17.00	-1.34	0.000	1.5	99681.887	1.5	100.6568	16.01	-1.30	14853.000	1.5	114200.450	1.5
100.3248	25.02	-2.52	43668.840	2.5	143345.070	3.5	100.6584	16.01	-0.86	14884.800	2.5	114230.750	2.5
100.3259	8.02	-1.33	338565.870	1.0	438241.000	1.0	100.6636	26.02	-3.78	50184.900	2.0	149525.630	2.0
100.3307	26.02	-4.55	114339.950	4.0	214010.320	5.0	100.6660	26.02	-1.85	49576.900	1.0	148915.300	1.0
100.3341	26.02	-4.63	122944.150	4.0	222611.160	5.0	100.6867	25.02	-2.56	32383.700	2.5	131701.690	1.5
100.3351	8.02	-0.76	338851.500	3.0	438517.500	4.0	100.6877	25.02	-4.47	32384.700	1.5	131701.690	1.5
100.3353	9.03	-0.99	460215.200	0.0	559881.000	1.0	100.6879	26.02	-1.92	19404.800	2.0	118721.600	2.0
100.3372	7.00	-6.57	0.000	1.5	99663.912	1.5	100.6891	16.01	-2.01	14884.800	2.5	114200.450	1.5
100.3377	9.03	-0.43	460640.600	2.0	560304.000	2.0	100.6956	16.01	-2.38	14853.000	1.5	114162.200	.5
100.3377	7.00	-5.62	0.000	1.5	99663.912	2.5	100.6959	26.02	-3.04	21699.900	3.0	121008.780	3.0
100.3421	23.02	-2.39	145.500	2.5	99804.570	2.5	100.6984	29.01	-3.56	23998.220	1.0	123304.630	1.0
100.3424	24.02	-3.49	181.900	2.0	99840.700	3.0	100.7006	29.01	-4.56	26264.400	2.0	125568.700	1.0
100.3431	24.02	-1.57	17528.800	6.0	117186.900	5.0	100.7073	25.02	-4.57	116851.690	3.5	216149.320	3.5
100.3522	26.02	-4.38	114325.350	5.0	213974.420	6.0	100.7073	25.02	-2.91	32404.000	.5	131701.690	1.5
100.3597	15.02	-0.40	559.600	1.5	100201.200	.5	100.7104	23.02	-1.36	145.500	2.5	99440.100	2.5
100.3631	26.02	-2.44	42896.900	3.0	142535.070	2.0	100.7112	26.02	-1.40	20688.400	1.0	119982.260	1.0
100.3694	24.03	-2.50	159872.000	4.5	259504.000	4.5	100.7119	26.02	-3.13	35803.700	2.0	135096.840	3.0
100.3733	25.02	-2.87	117063.740	4.5	216691.830	5.5	100.7130	22.02	-0.24	38197.980	2.0	137490.000	1.0
100.3767	12.03	-1.53	612240.300	1.5	711865.000	1.5	100.7165	17.00	-1.22	882.360	.5	100170.980	1.5
100.3809	17.00	-2.08	882.360	.5	100502.871	1.5	100.7363	27.02	-0.81	37021.000	3.5	136290.100	3.5
100.3821	28.02	-5.06	14031.600	2.0	113651.000	2.0	100.7363	17.00	-1.36	0.000	1.5	99269.121	2.5
100.3851	24.02	-8.82	17528.800	6.0	117145.200	5.0	100.7397	24.02	-4.60	575.000	4.0	99840.700	3.0
100.3886	8.02	-1.22	338690.340	2.0	438303.200	2.0	100.7462	24.02	-2.86	17272.800	4.0	116532.100	3.0
100.3942	25.02	-1.22	43602.500	3.5	143209.800	2.5	100.7606	25.01	-1.05	14781.190	2.0	114026.300	3.0
100.3947	25.02	-2.43	117063.740	4.5	216670.580	4.5	100.7622	25.01	-1.43	14781.190	2.0	114024.800	2.0
100.3974	24.02	-0.79	18451.000	2.0	118055.200	1.0	100.7635	25.01	-2.43	14781.190	2.0	114023.500	1.0
100.4019	23.02	-1.44	341.500	3.5	99941.200	3.5	100.7654	9.03	-0.86	460640.600	2.0	559881.000	1.0
100.4035	26.02	-4.61	82846.590	4.0	182444.700	3.0	100.7755	26.02	-3.04	50295.200	3.0	149525.630	2.0
100.4056	29.01	-1.73	21928.600	3.0	121524.670	3.0	100.7764	8.02	-1.41	267257.290	0.0	366486.910	1.0
100.4134	25.02	-2.78	43573.160	4.5	143161.500	4.5	100.7819	24.02	-3.30	17167.400	1.0	116391.600	2.0
100.4297	26.02	-3.99	82846.590	4.0	182418.700	4.0	100.7863	25.02	-4.10	117063.740	4.5	216283.580	3.5
100.4303	24.02	-2.39	17395.500	5.0	116967.000	4.0	100.7865	25.02	-3.46	116692.140	2.5	215911.730	1.5
100.4358	26.02	-2.86	82846.590	4.0	182412.650	4.0	100.7878	8.02	-1.07	267375.650	1.0	366594.010	2.0
100.4396	26.02	-4.49	82846.590	4.0	182408.910	3.0	100.7958	25.02	-3.42	116851.690	3.5	216062.130	2.5
100.4430	25.02	-2.72	43602.500	3.5	143161.500	4.5	100.8017	26.02	-3.				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
100.9402	25.02	-1.22	39176.500	6.5	138245.090	5.5
100.9452	25.01	-1.59	14959.840	0.0	114023.500	1.0
100.9511	26.02	-3.99	89084.790	3.0	188142.640	2.0
100.9525	28.01	-2.73	14995.570	2.5	114052.040	3.5
100.9548	20.02	-2.13	242547.190	2.0	341601.460	2.0
100.9612	19.04	-4.00	39758.000	.5	138806.000	.5
100.9712	26.02	-4.18	19404.800	2.0	118442.920	3.0
100.9724	24.03	-3.15	159360.000	3.5	258397.000	4.5
100.9734	23.02	-.85	145.500	2.5	99181.500	1.5
100.9848	26.02	-2.89	89084.790	3.0	188109.580	3.0
100.9856	25.02	-4.89	116851.690	3.5	215875.730	2.5
100.9864	25.02	-4.03	116692.140	2.5	215715.410	1.5
101.0007	26.02	-1.31	20688.400	1.0	119697.640	2.0
101.0094	25.02	-4.05	116580.170	1.5	215580.870	.5
101.0142	20.02	-2.68	247696.390	1.0	346692.340	0.0
101.0270	29.01	-2.06	26264.400	2.0	125247.800	2.0
101.0314	16.03	-3.98	123503.900	.5	222483.000	1.5
101.0370	27.02	-1.34	37316.500	2.5	136290.100	3.5
101.0418	26.02	-3.19	21857.200	2.0	120826.170	2.0
101.0446	29.01	-2.50	26264.400	2.0	125230.600	3.0
101.0448	25.01	-8.83	9472.970	2.0	108439.000	3.0
101.0466	25.01	-9.22	9472.970	2.0	108437.200	2.0
101.0495	8.02	-1.54	267632.590	2.0	366594.010	2.0
101.0640	29.01	-2.49	21928.600	3.0	120875.850	2.0
101.0713	25.02	-4.98	116580.170	1.5	215520.220	2.5
101.0724	24.03	-4.99	159458.000	5.5	258397.000	4.5
101.0830	26.02	-1.99	89084.790	3.0	188013.400	4.0
101.0849	28.01	-1.46	32499.530	4.5	131424.320	5.5
101.0885	28.01	-7.05	10115.660	2.5	109038.840	1.5
101.0992	8.02	-3.27	293865.260	1.0	392778.000	1.0
101.1085	28.02	-3.98	14031.600	2.0	112935.300	3.0
101.1097	25.02	-2.77	32384.700	1.5	131287.180	.5
101.1194	25.02	-3.59	116580.170	1.5	215473.200	1.5
101.1262	27.02	-5.15	24236.800	1.5	123123.100	1.5
101.1294	25.02	-3.43	32404.000	.5	131287.180	.5
101.1436	29.01	-5.80	23998.220	1.0	122867.530	1.0
101.1521	29.01	-2.17	21928.600	3.0	120789.630	4.0
101.1590	8.02	-2.69	267632.590	2.0	366486.910	1.0
101.1595	25.02	-4.26	117063.740	4.5	215917.520	4.5
101.1719	26.02	-3.75	19404.800	2.0	118246.520	3.0
101.1737	26.02	-3.10	21857.200	2.0	120697.100	1.0
101.1849	17.00	-1.60	882.360	.5	99711.309	.5
101.1852	26.02	-9.46	30088.840	3.0	128917.510	2.0
101.1858	25.02	-3.63	116692.140	2.5	215520.220	2.5
101.2017	27.02	-1.02	37316.500	2.5	136129.100	2.5
101.2022	26.02	-3.44	131445.030	2.0	230257.150	2.0
101.2025	25.02	-3.81	116851.690	3.5	215663.500	3.5
101.2049	26.02	-2.26	24940.900	4.0	123750.390	3.0
101.2062	26.02	-2.58	89334.510	2.0	188142.640	2.0
101.2113	26.02	-4.73	131445.030	2.0	230248.260	1.0
101.2125	20.02	-3.16	242547.190	2.0	341349.190	1.0
101.2151	17.00	-1.16	882.360	.5	99681.887	1.5
101.2175	26.02	-3.31	89334.510	2.0	188131.700	1.0
101.2218	8.03	-1.25	495169.000	1.5	593961.900	2.5
101.2340	25.02	-4.51	116692.140	2.5	215473.200	1.5
101.2354	8.03	-.65	495169.000	1.5	593948.700	1.5
101.2388	8.02	-3.92	294001.600	2.0	392778.000	1.0
101.2401	26.02	-2.18	89334.510	2.0	188109.580	3.0
101.2415	26.02	-1.40	21208.500	0.0	119982.260	1.0
101.2498	16.02	-.64	0.000	0.0	98765.600	1.0
101.2508	26.02	-8.11	40999.870	2.0	139764.480	2.0
101.2544	25.02	-1.47	39174.400	5.5	137935.530	4.5
101.2568	26.02	-3.90	19404.800	2.0	118163.560	2.0
101.2597	29.01	-1.93	21928.600	3.0	120684.550	3.0
101.2614	28.01	-4.72	23108.280	2.5	121862.570	3.5
101.2683	29.01	-1.63	23998.220	1.0	122745.770	2.0
101.2692	8.03	-3.12	495246.100	2.5	593992.800	3.5
101.2703	26.02	-3.37	35803.700	2.0	134549.380	1.0
101.2706	26.02	-2.65	35803.700	2.0	134549.000	3.0
101.2789	26.02	-3.57	50276.100	4.0	149013.360	4.0
101.2824	25.02	-2.70	39174.400	5.5	137908.200	5.5
101.2846	25.02	-.08	39174.400	6.5	137908.200	5.5
101.2859	26.02	-3.34	50184.900	2.0	148915.300	1.0
101.2874	19.04	-6.52	40077.000	1.5	138806.000	.5
101.2985	26.02	-2.84	50295.200	3.0	149013.360	4.0
101.3009	8.03	-.54	495246.100	2.5	593961.900	2.5
101.3145	8.03	-1.25	495246.100	2.5	593948.700	1.5
101.3253	28.01	-4.63	23108.280	2.5	121800.340	1.5
101.3322	8.03	-1.23	495359.600	3.5	594044.900	4.5
101.3355	24.02	-3.78	17850.000	2.0	116532.100	3.0
101.3370	26.02	-9.08	40999.870	2.0	139680.470	3.0
101.3380	23.02	-4.10	145.500	2.5	98825.190	3.5
101.3400	29.01	-2.62	22846.970	2.0	121524.670	3.0
101.3494	25.02	-4.72	116851.690	3.5	215520.220	2.5
101.3664	17.00	-.52	882.360	.5	99534.419	.5
101.3672	26.02	-2.55	89491.390	1.0	188142.640	2.0
101.3700	17.01	-3.17	11653.500	2.0	110302.000	1.0
101.3725	20.02	-2.85	245611.880	0.0	344257.920	1.0
101.3726	17.01	-2.58	11653.500	2.0	110299.500	2.0
101.3752	17.01	-3.50	11653.500	2.0	110297.000	3.0
101.3784	26.02	-2.96	89491.390	1.0	188131.700	1.0
101.3857	8.03	-.37	495359.600	3.5	593992.800	3.5
101.4014	26.02	-2.97	89491.390	1.0	188109.580	0.0
101.4064	15.03	-1.17	158138.200	2.0	256751.300	2.0
101.4114	16.01	-1.34	14853.000	1.5	113461.220	1.5
101.4117	26.02	-3.30	25142.400	3.0	123750.390	3.0
101.4144	24.02	-2.20	18581.600	4.0	117186.900	5.0
101.4175	8.03	-1.12	495359.600	3.5	593961.900	2.5
101.4198	23.02	-2.81	85875.740	3.5	184475.800	4.5
101.4249	26.02	-3.04	125443.580	4.0	224038.730	5.0
101.4305	23.02	-4.91	11591.800	1.5	110181.470	2.5
101.4309	24.02	-3.09	18510.000	3.0	117099.300	4.0
101.4321	25.02	-4.43	32307.300	3.5	130895.390	4.5
101.4368	26.02	-4.70	70694.030	5.0	169277.600	4.0
101.4441	16.01	-.21	14884.800	2.5	113461.220	1.5
101.4511	26.02	-2.12	42896.900	3.0	141466.530	3.0
101.4573	24.02	-3.76	18581.600	4.0	117145.200	5.0
101.4631	24.03	-2.50	160946.000	3.5	259504.000	4.5
101.4664	26.02	-2.94	25142.400	3.0	123697.180	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
101.4759	27.02	-3.11	0.000	4.5	98545.600	3.5
101.4800	24.02	-3.03	17850.000	2.0	116391.600	2.0
101.4827	18.02	-3.89	144885.970	2.0	243424.970	2.0
101.4899	8.03	-.19	495512.900	4.5	594044.900	4.5
101.4899	18.02	-3.02	144892.950	3.0	243424.970	3.0
101.4936	15.02	-.56	116873.600	1.5	215402.000	2.5
101.4965	17.00	-1.81	882.360	.5	99407.907	.5
101.4971	24.03	-4.24	159872.000	4.5	258397.000	4.5
101.5022	17.02	.05	0.000	1.5	98520.000	2.5
101.5043	18.02	-2.31	144907.000	4.0	243424.970	3.0
101.5046	24.02	-4.40	18581.600	4.0	117099.300	4.0
101.5052	15.02	-.40	116884.900	2.5	215402.000	3.5
101.5052	15.02	-1.70	116884.900	2.5	215402.000	2.5
101.5165	26.02	-1.87	20051.100	6.0	118557.250	5.0
101.5198	26.02	-1.75	50412.300	2.0	148915.300	1.0
101.5206	26.02	-1.99	42896.900	3.0	141399.040	2.0
101.5397	23.02	-2.62	341.500	3.5	98825.190	3.5
101.5436	8.03	-1.23	495512.900	4.5	593992.800	3.5
101.5450	15.01	.67	8882.600	2.0	107361.100	3.0
101.5486	23.02	-2.51	85524.000	2.5	183999.000	3.5
101.5510	26.02	-4.68	124854.040	3.0	223326.760	4.0
101.5514	17.00	-1.20	882.360	.5	99354.670	1.5
101.5554	16.02	-.67	297.200	1.0	98765.600	1.0
101.5573	8.02	-3.37	267257.290	0.0	365723.900	1.0
101.5594	15.03	-.78	158138.200	2.0	256602.700	1.0
101.5623	26.02	-2.82	35803.700	2.0	134265.420	2.0
101.5672	24.02	-4.36	18510.000	3.0	116967.000	4.0
101.5765	24.02	-1.23	17395.500	5.0	115843.500	6.0
101.5787	16.02	-.59	297.200	1.0	98743.000	2.0
101.5984	26.02	-4.34	124903.920	2.0	223330.710	3.0
101.6012	25.02	-5.85	32307.300	3.5	130731.310	3.5
101.6046	26.02	-3.38	125637.980	3.0	224058.700	4.0
101.6139	23.02	-5.30	11769.700	2.5	110181.470	2.5
101.6173	26.02	-1.24	49148.000	0.0	147556.450	1.0
101.6266	23.02	-4.24	0.000	1.5	98399.420	.5
101.6300	24.02	-1.24	17272.800	4.0	115668.900	5.0
101.6356	17.00	-2.59	0.000	1.5	98399.740	.5
101.6410	26.02	-1.72	20300.800	5.0	116866.250	4.0
101.6411	26.02	-2.23	24558.800	5.0	122944.150	4.0
101.6411	24.02	-4.57	18581.600	4.0	116967.000	4.0
101.6430	23.02	-4.85	0.000	1.5	98383.530	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
101.9515	28.01	-7.79	23108.280	2.5	121194.140	2.5	102.4110	26.02	-1.21	30725.800	1.0	128371.530	0.0
101.9522	23.02	-4.04	11769.700	2.5	109854.870	3.5	102.4358	28.01	-4.18	10115.660	2.5	107737.810	1.5
101.9531	16.01	-4.43	14853.000	1.5	112937.330	.5	102.4441	25.02	-2.19	121091.080	1.5	218705.250	2.5
101.9534	28.01	-8.11	23108.280	2.5	121192.320	3.5	102.4511	11.02	-4.25	417415.500	1.5	515023.000	.5
101.9564	24.02	-3.56	18451.000	2.0	116532.100	3.0	102.4672	27.02	-3.92	1451.300	2.5	99043.500	1.5
101.9624	26.02	-2.42	20481.900	4.0	118557.250	5.0	102.4699	28.01	-3.31	23796.180	1.5	121385.800	1.5
101.9654	29.01	-5.11	22846.970	2.0	120919.410	1.0	102.4720	28.01	-3.51	8393.900	4.5	105981.500	4.5
101.9677	28.01	-7.36	23108.280	2.5	121178.560	3.5	102.4819	25.02	-1.27	121091.080	1.5	218669.260	1.5
101.9761	23.02	-4.96	0.000	1.5	98062.220	1.5	102.4903	26.02	-2.06	19404.800	2.0	116975.050	2.0
101.9787	26.02	-4.57	30857.800	3.0	128917.510	2.0	102.5050	26.02	-2.64	42896.900	3.0	140453.100	3.0
101.9844	26.02	-2.45	20300.800	5.0	118355.010	6.0	102.5119	25.02	-1.25	121267.320	2.5	218816.970	2.5
101.9851	28.01	-8.51	23108.280	2.5	121161.810	1.5	102.5131	24.02	-1.86	17167.400	1.0	114715.900	1.0
101.9894	26.02	-2.32	20300.800	5.0	118350.240	4.0	102.5131	26.02	-4.39	89334.510	2.0	186882.980	3.0
101.9937	24.02	-1.66	20994.600	5.0	119039.900	5.0	102.5271	2.01	-1.75	329182.203	0.0	426717.391	0.0
101.9940	17.00	-2.22	0.000	1.5	98044.980	1.5	102.5287	26.02	-4.82	132659.170	4.0	230192.860	3.0
101.9971	23.02	-2.47	341.500	3.5	98383.530	2.5	102.5296	26.02	-7.27	19404.800	2.0	116937.570	1.0
101.9981	18.02	-3.35	144882.930	1.0	242923.960	1.0	102.5322	26.02	-4.20	128917.510	2.0	226447.880	2.0
101.9999	13.02	-2.31	115956.210	2.5	213995.480	2.5	102.5324	17.00	-1.75	0.000	1.5	97530.130	2.5
101.9999	13.02	-1.01	115956.210	2.5	213995.480	3.5	102.5337	28.01	-2.95	23796.180	1.5	121325.090	2.5
102.0005	28.01	-8.03	23108.280	2.5	121146.980	2.5	102.5515	23.02	-6.53	0.000	1.5	97512.000	1.5
102.0013	18.02	-3.50	144885.970	2.0	242923.960	1.0	102.5553	17.00	-2.32	882.360	.5	98390.740	.5
102.0015	26.02	-4.88	49576.900	1.0	147614.650	2.0	102.5629	24.02	-1.27	181.900	2.0	97683.000	3.0
102.0023	13.02	-1.16	115958.500	1.5	213995.480	2.5	102.5672	25.02	-4.95	121480.240	3.5	218977.340	3.5
102.0063	26.02	-2.56	20688.400	1.0	118721.600	2.0	102.5710	26.02	-3.87	19404.800	2.0	116898.220	2.0
102.0065	20.02	-1.80	242547.190	2.0	340580.150	3.0	102.5761	8.00	-1.99	0.000	2.0	97488.550	3.0
102.0108	29.01	-2.51	22846.970	2.0	120875.850	2.0	102.5762	8.00	-1.70	0.000	2.0	97488.460	2.0
102.0178	24.02	-2.33	18510.000	3.0	116532.100	3.0	102.5763	8.00	-2.86	0.000	2.0	97488.390	1.0
102.0258	24.02	-1.62	17167.400	1.0	115181.800	2.0	102.5789	26.02	-3.95	25142.400	3.0	122628.340	2.0
102.0358	28.02	-4.35	78482.900	1.0	176487.700	2.0	102.5844	17.00	-1.52	0.000	1.5	97480.664	1.5
102.0365	28.01	-2.30	23796.180	1.5	121800.340	1.5	102.5902	26.02	-3.41	20688.400	1.0	118163.560	2.0
102.0374	26.02	-4.14	24940.900	4.0	122944.150	4.0	102.5968	12.01	-2.89	0.000	.5	97468.920	1.5
102.0415	8.02	-4.96	294221.650	3.0	392221.000	2.0	102.6014	28.01	-3.84	32523.540	3.5	129988.050	2.5
102.0432	26.02	-4.10	21699.900	3.0	119697.640	2.0	102.6016	26.02	-4.32	128917.510	2.0	226381.910	3.0
102.0580	29.01	-2.68	23998.220	1.0	121981.680	2.0	102.6113	12.01	-3.19	0.000	.5	97455.120	.5
102.0596	27.02	-3.42	841.200	3.5	98823.200	2.5	102.6156	26.02	-2.49	50184.900	2.0	147635.950	3.0
102.0621	26.02	-1.46	49576.900	1.0	147556.450	1.0	102.6157	24.03	-4.96	160946.000	3.5	258397.000	4.5
102.0696	14.01	-1.57	0.000	.5	97972.350	.5	102.6177	27.02	-5.73	841.200	3.5	98290.300	4.5
102.0773	19.04	-3.37	40077.000	1.5	138042.000	1.5	102.6185	28.02	-4.27	16661.600	2.0	114109.900	3.0
102.0788	11.02	-4.11	417415.500	1.5	515379.000	1.5	102.6229	28.01	-4.49	8393.900	4.5	105838.060	3.5
102.0814	26.02	-2.84	20481.900	4.0	118442.920	3.0	102.6229	8.02	-3.89	273080.070	1.0	370524.200	2.0
102.0895	18.03	-4.46	21090.700	1.5	119044.000	.5	102.6279	28.02	-3.48	79143.300	2.0	176582.700	1.0
102.0924	24.02	-1.24	18581.600	4.0	116532.100	3.0	102.6294	25.02	-1.54	121267.320	2.5	218705.250	2.5
102.0981	24.02	-2.16	16770.900	0.0	114715.900	1.0	102.6338	28.02	-6.13	16661.600	2.0	114095.400	1.0
102.1008	28.01	-4.23	23108.280	2.5	121050.660	2.5	102.6357	24.03	-1.81	162072.000	3.5	259504.000	4.5
102.1027	24.02	-2.18	18451.000	2.0	116391.600	2.0	102.6381	26.02	-2.29	50184.900	2.0	147614.650	2.0
102.1093	28.01	-9.15	23108.280	2.5	121042.520	1.5	102.6438	18.03	-4.01	21090.700	1.5	118515.000	1.5
102.1093	28.01	-9.20	23108.280	2.5	121042.570	1.5	102.6473	8.00	-4.93	0.000	2.0	97420.954	1.0
102.1105	16.02	-4.52	832.500	2.0	98765.600	1.0	102.6474	8.00	-3.03	0.000	2.0	97420.851	2.0
102.1191	28.02	-4.95	78657.800	0.0	176582.700	1.0	102.6476	8.00	-1.91	0.000	2.0	97420.728	3.0
102.1276	23.02	-3.94	145.500	2.5	98062.220	1.5	102.6496	20.02	-2.46	243930.440	1.0	341349.190	1.0
102.1326	26.02	-4.57	124854.040	3.0	222765.970	4.0	102.6634	26.02	-3.38	24940.900	4.0	122346.610	3.0
102.1341	16.02	-4.01	832.500	2.0	98743.000	2.0	102.6674	25.02	-3.34	121267.320	2.5	218669.260	1.5
102.1441	26.02	-4.56	128605.650	1.0	226506.540	1.0	102.6707	25.02	-2.82	120974.250	.5	218373.000	1.5
102.1490	26.02	-4.50	124854.040	3.0	222750.230	3.0	102.6716	28.01	-6.85	23796.180	1.5	121194.140	2.5
102.1490	24.02	-3.28	20702.000	3.0	118598.200	3.0	102.6768	28.02	-4.35	16977.800	1.0	114370.800	2.0
102.1561	26.02	-4.85	30716.200	2.0	128605.650	1.0	102.6780	7.00	-4.96	19233.177	1.5	116625.000	2.5
102.1569	26.02	-2.50	24940.900	4.0	122829.550	3.0	102.6791	26.02	-4.50	24558.800	5.0	121949.620	5.0
102.1570	23.02	-2.75	11966.300	3.5	109854.870	3.5	102.6879	26.02	-4.19	24558.800	5.0	121941.290	4.0
102.1633	28.02	-5.14	14031.600	2.0	111914.100	2.0	102.6990	27.02	-3.91	1451.300	2.5	98823.200	2.5
102.1642	24.02	-1.44	18510.000	3.0	116391.600	2.0	102.6994	26.02	-1.58	50184.900	2.0	147556.450	1.0
102.1656	26.02	-4.96	124854.040	3.0	222734.330	4.0	102.7047	23.02	-6.25	145.500	2.5	97512.000	1.5
102.1661	26.02	-1.35	30725.800	1.0	128605.650	1.0	102.7056	28.01	-6.84	23796.180	1.5	121161.810	1.5
102.1760	26.02	-4.49	124903.920	2.0	222774.220	2.0	102.7117	26.02	-1.06	50276.100	4.0	147635.950	3.0
102.1781	26.02	-4.76	20481.900	4.0	118350.240	4.0	102.7179	17.00	-1.86	0.000	1.5	97354.057	1.5
102.1808	26.02	-4.08	125443.580	4.0	223309.370	5.0	102.7213	28.01	-7.05	23796.180	1.5	121146.980	2.5
102.1846	26.02	-4.53	124903.920	2.0	222766.040	3.0	102.7244	7.00	-4.53	19233.177	1.5	116581.000	2.5
102.1851	6.00	-6.24	16.400	1.0	97878.000	2.0	102.7280	28.02	-2.74	79143.300	2.0	176487.700	2.0
102.1930	26.02	-2.65	42896.900	3.0	140750.980	2.0	102.7319	26.02	-2.59	50295.200	3.0	147635.950	3.0
102.2011	26.02	-4.74	124903.920	2.0	222750.230	3.0	102.7339	17.00	-1.58	0.000	1.5	97338.887	2.5
102.2048	17.00	-1.31	0.000	1.5	97842.783	1.5	102.7361	25.02	-2.34	121480.240	3.5	218816.970	2.5
102.2072	26.02	-3.11	21857.200	2.0	119697.640	2.0	102.7413	24.02	-2.52	17850.000	2.0	115181.800	2.0
102.2102	29.01	-2.72	22846.970	2.0	120684.550	3.0	102.7430	8.00	-1.24	158.265	1.0	97488.460	2.0
102.2133	6.00	-5.20	43.400	2.0	97878.000	2.0	102.7431	8.00	-1.70	158.265	1.0	97488.390	1.0
102.2265	26.02	-4.64	124954.880	1.0	222776.890	1.0	102.7462	24.02	-1.72	355.800	3.0	97683.000	3.0
102.2280	8.02	-1.50	273080.070	1.0	370900.600	2.0	102.7472	25.02	-3.37	39174.400	5.5	136500.630	6.5
102.2293	26.02	-4.94	124954.880	1.0	222774.220	2.0	102.7494	25.02	-4.30	39176.500	6.5	136500.630	6.5
102.2414	17.00	-3.07	0.000	1.5	97807.707	2.5	102.7513	26.02	-4.34	125443.580	4.0	222765.970	4.0
102.2459	26.02	-4.74	124954.880	1.0	222758.280	2.0	102.7544	26.02	-1.34	50295.200	3.0	147614.650	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
102.8393	25.02	-1.07	121267.320	2.5	218506.390	3.5	103.1133	26.02	-2.29	21462.200	4.0	118442.920	3.0
102.8407	17.00	-5.09	0.000	1.5	97237.723	2.5	103.1153	26.02	-2.92	24940.900	4.0	121919.740	3.0
102.8420	11.02	-2.82	417415.500	1.5	514652.000	2.5	103.1182	25.02	-1.52	121091.080	1.5	218067.190	2.5
102.8449	7.00	-2.58	19233.177	1.5	116467.000	1.5	103.1191	26.02	-5.08	19404.800	2.0	116380.070	1.0
102.8449	7.00	-3.27	19233.177	1.5	116467.000	1.5	103.1235	24.02	-5.50	41851.600	4.0	115552.700	3.0
102.8542	25.02	-1.18	121480.240	3.5	218705.250	2.5	103.1270	26.02	-4.80	125637.980	3.0	222605.820	4.0
102.8552	26.02	-4.69	21462.200	4.0	118686.250	4.0	103.1283	28.01	-2.95	10115.660	2.5	107082.210	2.5
102.8556	26.02	-4.60	50412.300	2.0	147635.950	3.0	103.1306	28.01	-3.85	24835.930	1.5	121800.340	1.5
102.8583	26.02	-3.70	20300.800	5.0	117521.910	4.0	103.1344	11.02	-3.30	418418.100	1.5	515379.000	1.5
102.8616	17.00	-2.01	882.360	.5	98100.340	.5	103.1347	25.02	-2.25	43602.500	3.5	140563.030	3.5
102.8628	25.02	-1.21	121091.080	1.5	218307.980	2.5	103.1349	17.00	-2.28	882.360	.5	97842.783	1.5
102.8699	14.01	-4.56	55325.440	2.5	152535.600	3.5	103.1360	24.02	-1.58	17395.500	5.0	114354.900	4.0
102.8736	25.02	-1.30	120974.250	.5	218180.900	1.5	103.1376	16.01	-5.50	24571.600	1.5	121529.490	2.5
102.8762	26.02	-6.01	25142.400	3.0	122346.610	3.0	103.1389	16.01	-1.25	24571.600	1.5	121528.200	1.5
102.8767	25.02	-4.54	43573.160	4.5	140776.880	5.5	103.1391	27.02	-5.05	1866.800	1.5	98823.200	2.5
102.8777	7.00	-4.79	19233.177	1.5	116436.000	2.5	103.1407	25.02	-6.64	43602.500	3.5	140557.460	4.5
102.8782	26.02	-1.48	50412.300	2.0	147614.650	2.0	103.1426	28.01	-4.06	9330.040	3.5	106283.160	2.5
102.8860	28.01	-2.95	8393.900	4.5	105588.890	4.5	103.1456	24.02	-1.81	355.800	3.0	97306.100	2.0
102.8870	8.00	-3.33	226.977	0.0	97420.954	1.0	103.1471	9.02	-4.02	344436.960	1.5	441385.880	1.5
102.8920	28.02	-4.95	14031.600	2.0	111220.900	3.0	103.1507	17.00	-2.22	0.000	1.5	96945.536	2.5
102.8933	26.02	-8.41	40999.870	2.0	138187.930	3.0	103.1553	8.02	-2.67	306584.800	2.0	403526.000	1.0
102.9053	27.02	-4.40	1866.800	1.5	99043.500	1.5	103.1571	7.00	-3.73	19224.464	2.5	116164.000	3.5
102.9150	26.02	-4.56	125443.580	4.0	222611.160	5.0	103.1583	24.02	-1.71	181.900	2.0	97120.300	3.0
102.9191	28.01	-7.26	23108.280	2.5	120271.970	2.5	103.1624	7.00	-4.72	19224.464	2.5	116159.000	2.5
102.9202	17.00	-2.92	882.360	.5	98044.980	1.5	103.1624	7.00	-3.08	19224.464	2.5	116159.000	3.5
102.9225	28.01	-7.07	23108.280	2.5	120268.810	3.5	103.1647	26.02	-4.47	125672.830	2.0	222605.240	3.0
102.9301	25.02	-2.56	120974.250	.5	218127.590	.5	103.1658	23.02	-3.33	87544.460	4.5	184475.800	4.5
102.9343	17.00	-2.33	0.000	1.5	97149.323	.5	103.1664	7.00	-4.09	19233.177	1.5	116164.000	2.5
102.9385	28.01	-5.93	29593.460	.5	126738.820	1.5	103.1669	26.02	-1.53	42896.900	3.0	139827.170	4.0
102.9398	26.02	-2.83	50412.300	2.0	147556.450	1.0	103.1670	17.00	-1.55	0.000	1.5	96930.181	.5
102.9415	7.00	-4.19	19224.464	2.5	116367.000	3.5	103.1717	7.00	-3.42	19233.177	1.5	116159.000	2.5
102.9422	28.01	-7.90	23108.280	2.5	120250.170	3.5	103.1766	29.01	-3.50	23998.220	1.0	120919.410	1.0
102.9482	26.02	-4.53	125637.980	3.0	222774.220	2.0	103.1777	25.02	-8.86	121480.240	3.5	218400.400	3.5
102.9500	7.00	-3.69	19224.464	2.5	116359.000	3.5	103.1847	25.02	-2.09	121267.320	2.5	218180.900	1.5
102.9508	7.00	-4.03	19233.177	1.5	116367.000	2.5	103.1885	26.02	-2.95	24558.800	5.0	121468.820	5.0
102.9515	25.02	-1.58	121267.320	2.5	218400.400	3.5	103.1900	3.01	-1.63	494273.000	0.0	591181.615	0.0
102.9548	26.02	-1.85	50276.100	4.0	147406.140	5.0	103.1950	8.05	-5.58	0.000	0.0	96903.920	0.0
102.9559	11.02	-2.65	414281.000	2.5	511410.000	2.5	103.1975	26.02	-4.74	82846.590	4.0	179748.170	5.0
102.9569	26.02	-4.55	125637.980	3.0	222766.040	3.0	103.1984	25.01	-3.63	9472.970	2.0	106373.700	2.0
102.9592	7.00	-4.56	19233.177	1.5	116359.000	2.5	103.1997	7.00	-3.72	19224.464	2.5	116124.000	1.5
102.9610	24.02	-3.50	181.900	2.0	97306.100	2.0	103.1997	7.00	-3.36	19224.464	2.5	116124.000	2.5
102.9679	28.02	-4.97	16977.800	1.0	114095.400	1.0	103.2041	25.02	-2.09	121480.240	3.5	218375.610	4.5
102.9711	28.01	-8.02	23108.280	2.5	120222.890	1.5	103.2045	24.02	-2.48	181.900	2.0	97076.900	1.0
102.9728	19.03	-3.58	38546.000	0.0	135659.000	1.0	103.2054	25.02	-2.98	43668.840	2.5	140563.030	3.5
102.9736	26.02	-4.93	125637.980	3.0	222750.230	3.0	103.2089	7.00	-3.38	19233.177	1.5	116124.000	.5
102.9743	25.02	-1.53	120974.250	.5	218085.880	.5	103.2089	7.00	-4.68	19233.177	1.5	116124.000	1.5
102.9749	29.01	-1.87	21928.600	3.0	119039.680	2.0	103.2089	7.00	-4.50	19233.177	1.5	116124.000	2.5
102.9781	24.02	-1.97	575.000	4.0	97683.000	3.0	103.2119	26.02	-1.04	21462.200	4.0	118350.240	4.0
102.9806	25.02	-1.28	121267.320	2.5	218373.000	1.5	103.2149	26.02	-1.79	50276.100	4.0	147161.360	4.0
102.9811	28.01	-5.20	8393.900	4.5	105499.050	3.5	103.2160	25.02	-1.92	121091.080	1.5	217975.300	2.5
102.9823	26.02	-4.66	125672.830	2.0	222776.890	1.0	103.2178	7.00	-3.11	19224.464	2.5	116107.000	1.5
102.9834	23.02	-2.81	87544.460	4.5	184647.530	5.5	103.2217	9.02	-3.95	344436.960	.5	441315.800	.5
102.9848	24.02	-2.75	18451.000	2.0	115552.700	3.0	103.2230	29.01	-3.38	23998.220	1.0	120875.850	2.0
102.9917	28.01	-7.41	23108.280	2.5	120203.490	2.5	103.2271	7.00	-3.76	19233.177	1.5	116107.000	.5
102.9919	26.02	-2.24	21462.200	4.0	118557.250	5.0	103.2271	7.00	-4.06	19233.177	1.5	116107.000	1.5
102.9927	27.02	-4.89	1451.300	2.5	98545.600	3.5	103.2337	26.02	-1.08	42896.900	3.0	139764.480	2.0
102.9963	28.01	-7.58	23108.280	2.5	120199.180	1.5	103.2352	26.02	-9.95	50295.200	3.0	147161.360	4.0
102.9974	25.02	-1.65	121091.080	1.5	218180.900	1.5	103.2355	24.02	-2.79	17850.000	2.0	114715.900	1.0
102.9998	7.00	-3.86	19224.464	2.5	116312.000	1.5	103.2368	28.02	-4.06	17230.700	0.0	114095.400	1.0
102.9998	7.00	-3.49	19224.464	2.5	116312.000	2.5	103.2371	26.02	-4.13	21857.200	2.0	118721.600	2.0
103.0001	24.02	-4.39	18581.600	4.0	115668.900	5.0	103.2402	24.02	-2.01	59.900	1.0	96921.400	2.0
103.0020	26.02	-4.46	125672.830	2.0	222758.280	2.0	103.2548	25.02	-1.84	121267.320	2.5	218115.150	3.5
103.0056	24.02	-1.58	17272.800	4.0	114354.900	4.0	103.2702	25.02	-1.70	120974.250	.5	217807.570	1.5
103.0073	7.00	-3.23	19224.464	2.5	116305.000	1.5	103.2762	25.02	-2.72	121480.240	3.5	218307.980	2.5
103.0091	7.00	-3.52	19233.177	1.5	116312.000	.5	103.2778	28.01	-4.97	25036.380	2.5	121862.570	3.5
103.0091	7.00	-4.82	19233.177	1.5	116312.000	1.5	103.2822	11.02	-3.32	418556.900	.5	515379.000	1.5
103.0091	7.00	-4.64	19233.177	1.5	116312.000	2.5	103.2863	20.02	-2.31	243930.440	1.0	340748.720	2.0
103.0111	24.02	-1.30	0.000	0.0	97076.900	1.0	103.3059	25.02	-1.17	121267.320	2.5	218067.190	2.5
103.0143	28.01	-5.01	10663.890	1.5	107737.810	1.5	103.3069	8.03	-1.01	499767.200	.5	596566.200	.5
103.0165	7.00	-3.89	19233.177	1.5	116305.000	.5	103.3070	26.02	-1.46	25142.400	3.0	121941.290	4.0
103.0165	7.00	-4.20	19233.177	1.5	116305.000	1.5	103.3140	25.01	-4.37	9472.970	2.0	106265.300	1.0
103.0178	26.02	-4.77	19404.800	2.0	116475.440	3.0	103.3173	8.02	-7.71	306584.800	2.0	403374.000	3.0
103.0260	29.01	-2.05	21928.600	3.0	118991.500	4.0	103.3184	28.01	-3.05	14995.570	2.5	111783.790	3.5
103.0280	23.02	-3.41	86938.010	2.5	183999.000	3.5	103.3225	26.02	-1.57	21462.200	4.0	118246.520	3.0
103.0288	24.02	-4.60	18510.000	3.0	115570.200	4.0	103.3227	26.02	-4.71	82846.590	4.0	179630.770	4.0
103.0309	28.01	-1.26	23108.280	2.5	120166.520	1.5	103.3232	24.02	-3.38	575.000	4.0	97358.700	4.0
103.0367	25.01	-3.71	9472.970	2.0	106525.800	3.0	103.3233	26.02	-3.19	42896.900	3.0	139680.470	3.0
103.0414	23.02	-4.10	63303.120	4.5	160351.500	3.5	103.3270	23.02	-4.58	87218.920	3.5	1	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
103.4061	26.02	-1.06	50184.900	2.0	146891.040	3.0	103.7399	27.02	-1.71	37316.500	2.5	133711.400	2.5
103.4207	23.02	-4.55	87544.460	4.5	184236.900	4.5	103.7414	7.00	-4.27	19224.464	2.5	115618.000	1.5
103.4212	25.02	-1.11	43602.500	3.5	140294.440	3.5	103.7414	7.00	-4.41	19224.464	2.5	115618.000	2.5
103.4229	27.02	-1.25	37021.000	3.5	133711.400	2.5	103.7416	28.01	-7.59	23796.180	1.5	120189.550	.5
103.4247	28.01	-1.09	23108.280	2.5	119796.980	2.5	103.7459	26.02	-1.82	21857.200	2.0	118246.520	3.0
103.4309	26.02	-2.45	24558.800	5.0	121241.670	4.0	103.7465	7.00	-3.99	19233.177	1.5	115622.000	2.5
103.4330	23.02	-4.87	63315.050	3.5	159996.000	2.5	103.7508	7.00	-4.16	19233.177	1.5	115618.000	2.5
103.4358	25.02	-2.35	43602.500	3.5	140280.800	4.5	103.7587	17.00	-7.78	882.360	.5	97259.811	1.5
103.4366	7.00	-4.32	19224.464	2.5	115902.000	2.5	103.7628	28.01	-7.33	24788.200	1.5	121161.810	1.5
103.4366	7.00	-2.77	19224.464	2.5	115902.000	3.5	103.7630	8.05	-8.09	0.000	0.0	96373.466	0.0
103.4413	28.02	-3.58	16977.800	1.0	113651.000	2.0	103.7640	7.00	-4.32	19224.464	2.5	115597.000	1.5
103.4428	24.02	-4.72	18510.000	3.0	115181.800	2.0	103.7654	25.02	-3.45	43573.160	4.5	139944.400	3.5
103.4449	8.03	-4.86	499842.600	2.5	596512.400	1.5	103.7664	28.01	-2.80	23796.180	1.5	120166.520	1.5
103.4460	7.00	-3.15	19233.177	1.5	115902.000	2.5	103.7774	26.02	-3.76	70725.010	3.0	167085.120	3.0
103.4467	28.01	-1.84	24788.200	1.5	121456.320	1.5	103.7788	28.01	-7.54	24788.200	1.5	121146.980	2.5
103.4506	7.00	-4.91	19224.464	2.5	115889.000	1.5	103.7804	24.02	-6.68	355.800	3.0	96713.100	3.0
103.4527	7.00	-4.72	19224.464	2.5	115887.000	2.5	103.7807	26.01	-8.27	0.000	4.5	96357.070	3.5
103.4527	7.00	-3.56	19224.464	2.5	115887.000	3.5	103.7814	26.02	-3.01	70728.750	4.0	167085.120	3.0
103.4599	7.00	-4.89	19233.177	1.5	115889.000	1.5	103.7889	28.01	-2.41	25036.380	2.5	121385.800	1.5
103.4620	7.00	-3.37	19233.177	1.5	115887.000	2.5	103.7942	18.03	-3.11	21219.500	2.5	117564.000	2.5
103.4646	28.01	-4.39	9330.040	3.5	105981.500	4.5	103.7970	25.02	-3.36	43602.500	3.5	139944.400	3.5
103.4652	20.02	-2.33	242547.190	2.0	339198.090	1.0	103.8004	28.01	-4.56	9330.040	3.5	105668.780	2.5
103.4658	26.02	-1.82	21699.900	3.0	118350.240	4.0	103.8038	24.02	-2.72	20851.300	4.0	117186.900	5.0
103.4679	8.03	-4.86	499795.700	1.5	596444.000	2.5	103.8110	25.02	-6.69	43573.160	4.5	139902.060	5.5
103.4767	14.01	-1.94	55309.610	1.5	151949.700	1.5	103.8141	24.02	-4.47	59.900	1.0	96385.900	2.0
103.4807	26.02	-4.93	132785.360	4.0	229421.730	4.0	103.8152	24.03	-4.22	162072.000	3.5	258397.000	4.5
103.4823	25.02	-3.31	121480.240	3.5	218115.150	3.5	103.8308	7.00	-4.02	19224.464	2.5	115535.000	2.5
103.4870	7.00	-3.59	19224.464	2.5	115855.000	1.5	103.8308	7.00	-2.33	19224.464	2.5	115535.000	3.5
103.4870	7.00	-3.17	19224.464	2.5	115855.000	2.5	103.8353	26.02	-8.11	21857.200	2.0	118163.560	2.0
103.4922	25.02	-4.63	43668.840	2.5	140294.440	3.5	103.8395	28.01	-7.96	24788.200	1.5	121090.710	.5
103.4937	14.01	-4.97	55325.440	2.5	151949.700	1.5	103.8402	7.00	-2.68	19233.177	1.5	115535.000	2.5
103.4963	7.00	-3.24	19233.177	1.5	115855.000	.5	103.8408	26.02	-3.42	35803.700	2.0	132104.940	2.0
103.4963	7.00	-4.54	19233.177	1.5	115855.000	1.5	103.8413	26.02	-2.59	24940.900	4.0	121241.670	4.0
103.4978	28.01	-4.31	19233.177	1.5	115855.000	2.5	103.8427	7.00	-4.53	19224.464	2.5	115524.000	2.5
103.5009	7.00	-1.84	24835.930	.5	121456.320	1.5	103.8427	7.00	-4.00	19224.464	2.5	115524.000	3.5
103.5029	28.01	-3.46	19224.464	2.5	115842.000	1.5	103.8456	7.00	-4.33	19233.177	1.5	115530.000	1.5
103.5037	26.02	-5.70	1506.940	1.5	98122.630	.5	103.8469	28.01	-3.33	13550.390	3.5	109846.000	3.5
103.5102	7.00	-2.72	50276.100	4.0	146891.040	3.0	103.8487	24.02	-2.50	20851.300	4.0	117145.200	5.0
103.5102	7.00	-3.63	19233.177	1.5	115842.000	.5	103.8500	28.01	-5.00	1506.940	1.5	97799.660	1.5
103.5102	7.00	-3.06	19233.177	1.5	115842.000	1.5	103.8521	7.00	-4.48	19233.177	1.5	115524.000	1.5
103.5125	25.02	-2.58	39174.400	5.5	135781.090	5.5	103.8521	7.00	-3.01	19233.177	1.5	115524.000	2.5
103.5137	26.02	-3.78	70694.030	5.0	167299.600	5.0	103.8543	28.01	-2.87	25036.380	2.5	121325.090	2.5
103.5144	11.02	-3.44	418418.100	1.5	515023.000	.5	103.8566	26.02	-2.69	20688.400	1.0	116975.050	2.0
103.5148	25.02	-2.49	43602.500	3.5	140207.090	2.5	103.8587	25.02	-1.59	43573.160	4.5	139857.840	4.5
103.5148	25.02	-2.41	39176.500	6.5	135781.090	5.5	103.8632	7.02	-8.87	245665.700	.5	341946.200	1.5
103.5163	29.01	-4.48	26264.400	2.0	122867.530	1.0	103.8670	26.02	-2.77	70725.010	3.0	167002.000	2.0
103.5182	8.03	-4.47	499842.600	2.5	596444.000	2.5	103.8678	26.02	-3.47	35803.700	2.0	132079.910	3.0
103.5215	17.00	-2.25	882.360	.5	97480.664	1.5	103.8685	25.02	-2.28	43668.840	2.5	139944.400	3.5
103.5222	28.01	-2.52	24788.200	1.5	121385.800	1.5	103.8705	28.02	-3.43	16661.600	2.0	112935.300	3.0
103.5241	26.02	-1.73	50295.200	3.0	146891.040	3.0	103.8774	22.02	-2.85	41703.650	2.0	137971.000	2.0
103.5287	24.02	-4.57	181.900	2.0	96773.500	1.0	103.8778	17.00	-2.03	882.360	.5	97149.323	.5
103.5337	25.02	-1.76	121480.240	3.5	218067.190	2.5	103.8793	26.02	-2.34	20051.100	6.0	116316.630	5.0
103.5340	26.02	-3.45	20481.900	4.0	117068.560	3.0	103.8799	24.02	-3.04	27002.000	3.0	116967.000	4.0
103.5350	26.02	-2.48	21857.200	2.0	118442.920	3.0	103.8800	24.02	-8.88	18451.000	2.0	114715.900	1.0
103.5441	25.02	-3.36	43602.500	3.5	140179.740	2.5	103.8827	28.01	-3.73	24788.200	1.5	121050.660	2.5
103.5454	26.04	-2.86	195942.000	3.0	292518.000	3.0	103.8866	28.01	-3.24	9330.040	3.5	105588.890	4.5
103.5565	24.02	-6.65	355.800	3.0	96921.400	2.0	103.8869	7.00	-3.45	19224.464	2.5	115483.000	1.5
103.5604	19.04	-3.54	40077.000	1.5	136639.000	2.5	103.8869	7.00	-3.31	19224.464	2.5	115483.000	2.5
103.5609	20.02	-2.48	247696.390	1.0	344257.920	1.0	103.8901	7.00	-2.74	19224.464	2.5	115480.000	1.5
103.5612	26.02	-5.48	40999.870	2.0	137561.100	1.0	103.8903	25.02	-9.95	43602.500	3.5	139857.840	4.5
103.5646	25.02	-2.80	39174.400	5.5	135732.500	4.5	103.8914	28.01	-7.94	24788.200	1.5	121042.520	1.5
103.5734	28.01	-3.19	24835.930	.5	121385.800	1.5	103.8914	28.01	-3.49	24788.200	1.5	121042.570	1.5
103.5769	26.02	-4.75	21699.900	3.0	118246.520	3.0	103.8915	9.02	-4.28	348702.800	.5	444957.110	1.5
103.5783	24.02	-1.00	575.000	4.0	97120.300	3.0	103.8922	28.01	-3.62	10115.660	2.5	106369.300	1.5
103.5789	26.02	-4.97	40999.870	2.0	137544.600	2.0	103.8933	28.01	-4.22	8393.900	4.5	104646.520	3.5
103.5837	25.02	-1.66	121267.320	2.5	217807.570	1.5	103.8963	7.00	-3.10	19233.177	1.5	115483.000	.5
103.5859	25.02	-1.27	43668.840	2.5	140207.090	2.5	103.8963	7.00	-4.40	19233.177	1.5	115483.000	1.5
103.5872	8.03	-9.95	499907.000	3.5	596444.000	2.5	103.8963	7.00	-4.45	19233.177	1.5	115483.000	2.5
103.5873	28.01	-3.44	24788.200	1.5	121325.090	2.5	103.8970	26.02	-5.01	20688.400	1.0	116937.570	1.0
103.5884	28.01	-4.48	0.000	2.5	96535.870	3.5	103.8983	24.02	-1.92	20851.300	4.0	117099.300	4.0
103.5922	25.02	-4.73	43674.700	1.5	140207.090	2.5	103.8995	7.00	-3.44	19233.177	1.5	115480.000	.5
103.5934	24.02	-2.29	181.900	2.0	96713.100	3.0	103.8995	7.00	-4.50	19233.177	1.5	115480.000	1.5
103.5935	28.01	-2.96	9330.040	3.5	105861.190	2.5	103.9002	7.02	-6.62	245701.700	1.5	341947.900	2.5
103.5970	26.02	-3.74	24940.900	4.0	121468.820	5.0	103.9020	7.02	-1.57	245701.700	1.5	341946.200	1.5
103.6032	24.02	-4.05	575.000	4.0	97097.100	4.0	103.9079	26.01	-5.33	0.000	4.5	96239.100	4.5
103.6056	28.01	-3.20	23796.180	1.5	120316.020	.5	103.9104	11.02	-3.13	415173.200	1.5	511410.000	2.5
103.6127	26.02	-3.54	70694.030	5.0	167207.300	4.0	103.9135	11.02	-2.01	418418.100	1.5	514652.000	2.5
103.6152	25.02	-4.87	43668.840	2.5	140179.740	2.5	103.9346	29.01	-8.89	21928.600	3.0	11	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
104.0648	29.01	-4.32	23998.220	1.0	120092.200	2.0
104.0706	24.02	-1.92	59.900	1.0	96148.500	1.0
104.0707	20.02	-2.70	247696.390	1.0	343784.960	1.0
104.0931	26.02	-2.59	24940.900	4.0	121008.780	3.0
104.0992	26.01	-5.76	0.000	4.5	96062.180	5.5
104.1019	26.02	-3.58	21462.200	4.0	117521.910	4.0
104.1098	28.01	-5.49	0.000	2.5	96052.480	2.5
104.1148	17.00	-1.25	882.360	5	96930.181	5
104.1217	26.02	-2.65	49576.900	1.0	145618.390	2.0
104.1271	28.02	-2.88	61339.200	4.0	157375.700	4.0
104.1340	24.02	-1.01	355.800	3.0	96385.900	2.0
104.1495	26.02	-4.42	20300.800	5.0	116316.630	5.0
104.1512	28.01	-2.68	25036.380	2.5	121050.660	2.5
104.1600	28.01	-9.11	25036.380	2.5	121042.520	1.5
104.1600	28.01	-1.79	25036.380	2.5	121042.520	1.5
104.1658	28.01	-2.06	23796.180	1.5	119796.980	2.5
104.1679	9.02	-4.31	349007.250	2.5	445006.130	2.5
104.1715	17.00	-1.68	0.000	1.5	95995.561	5
104.1737	26.02	-3.35	20481.900	4.0	116475.440	3.0
104.1756	26.02	-2.89	134265.420	2.0	230257.150	2.0
104.1824	26.02	-2.57	20481.900	4.0	116467.410	4.0
104.1853	26.02	-3.48	134265.420	2.0	230248.260	1.0
104.1878	23.02	-2.37	86306.400	4.5	182286.970	5.5
104.1966	24.02	-1.17	20994.600	5.0	116967.000	4.0
104.1967	26.01	-8.24	384.770	3.5	96357.070	3.5
104.2029	24.02	-1.63	181.900	2.0	96168.500	1.0
104.2208	23.02	-1.50	85875.740	3.5	181825.840	4.5
104.2262	8.02	-3.79	306584.800	2.0	402530.000	3.0
104.2455	26.02	-2.81	134265.420	2.0	230192.860	3.0
104.2551	26.02	-2.59	89084.790	3.0	185003.350	2.0
104.2656	23.02	-3.77	88327.960	3.5	184236.900	4.5
104.2706	28.01	-1.96	8393.900	4.5	104298.230	4.5
104.2752	9.02	-4.04	395268.130	1.5	491168.250	2.5
104.2779	17.00	-1.00	0.000	1.5	95897.565	1.5
104.2809	26.01	-9.51	384.770	3.5	96279.650	2.5
104.2821	28.01	-6.67	0.000	2.5	95893.760	1.5
104.2981	25.01	-2.51	14325.860	4.0	110204.900	3.0
104.2986	7.00	-2.92	19224.464	2.5	115103.000	2.5
104.3018	7.00	-3.68	19224.464	2.5	115100.100	2.5
104.3081	7.00	-4.26	19233.177	1.5	115103.000	2.5
104.3113	7.00	-2.39	19233.177	1.5	115100.100	2.5
104.3114	26.02	-2.17	89084.790	3.0	184951.620	3.0
104.3114	28.01	-4.05	25036.380	2.5	120903.200	3.5
104.3119	26.02	-5.61	25142.400	3.0	121008.780	3.0
104.3243	27.02	-4.87	15428.200	1.5	111283.100	5
104.3250	26.01	-6.14	384.770	3.5	96239.100	4.5
104.3352	24.02	-2.27	18510.000	3.0	114354.900	4.0
104.3461	25.01	-2.67	14593.820	3.0	110428.700	4.0
104.3463	26.02	-4.71	20481.900	4.0	116316.630	5.0
104.3481	7.00	-3.85	19224.464	2.5	115057.500	1.5
104.3488	26.02	-3.22	134360.400	4.0	230192.860	3.0
104.3513	24.02	-1.39	20702.000	3.0	116532.100	3.0
104.3576	7.00	-2.86	19233.177	1.5	115057.500	1.5
104.3602	26.02	-3.99	21699.900	3.0	117521.910	4.0
104.3679	28.01	-6.75	23108.280	2.5	118923.200	3.5
104.3872	26.02	-6.13	40999.870	2.0	136797.050	3.0
104.3903	9.02	-4.26	387726.860	4.5	435521.140	3.5
104.3907	26.02	-7.58	40999.870	2.0	136793.820	2.0
104.3936	25.02	-3.72	121480.240	3.5	217271.590	4.5
104.3954	28.01	-6.68	23108.280	2.5	118897.940	2.5
104.3986	17.00	-1.14	0.000	1.5	95786.752	2.5
104.3990	22.02	-2.80	41703.650	2.0	137490.000	1.0
104.4018	7.00	-3.50	19233.177	1.5	115017.000	5
104.4018	7.00	-3.78	19233.177	1.5	115017.000	1.5
104.4031	9.02	-4.21	395385.660	2.5	491168.250	2.5
104.4064	7.00	-3.67	19224.464	2.5	115004.000	2.5
104.4064	7.00	-2.82	19224.464	2.5	115004.000	3.5
104.4128	23.02	-1.65	85875.740	3.5	181649.450	3.0
104.4132	24.02	-1.64	18581.600	4.0	114354.900	4.0
104.4159	7.00	-2.52	19233.177	1.5	115004.000	2.5
104.4163	23.02	-4.40	86306.400	4.5	182076.860	5.5
104.4176	26.02	-2.88	70728.750	4.0	166498.000	3.0
104.4181	28.01	-7.03	23108.280	2.5	118877.090	1.5
104.4202	28.01	-5.06	1506.940	1.5	97273.830	2.5
104.4214	28.01	-8.06	23108.280	2.5	118874.110	3.5
104.4239	7.00	-4.69	19224.464	2.5	114988.000	2.5
104.4239	7.00	-4.54	19224.464	2.5	114988.000	2.5
104.4239	7.00	-2.38	19224.464	2.5	114988.000	3.5
104.4282	27.02	-0.83	15201.900	2.5	110961.500	1.5
104.4300	3.01	-2.46	501816.000	0.0	597573.924	0.0
104.4334	7.00	-4.12	19233.177	1.5	114988.000	1.5
104.4334	7.00	-2.86	19233.177	1.5	114988.000	2.5
104.4349	28.01	-3.12	8393.900	4.5	104147.290	5.5
104.4422	9.02	-3.18	395385.660	2.5	491132.380	3.5
104.4435	28.01	-4.21	10115.660	2.5	105861.190	2.5
104.4497	28.02	-5.00	16661.600	2.0	112401.500	1.0
104.4517	29.01	-6.67	21928.600	3.0	117666.600	4.0
104.4525	20.02	-3.98	245611.880	0.0	341349.190	1.0
104.4594	26.02	-5.71	20688.400	1.0	116419.390	2.0
104.4615	26.02	-5.51	21208.500	0.0	116937.570	1.0
104.4620	23.02	-1.93	86306.400	4.5	182034.970	4.5
104.4639	26.02	-2.55	89334.510	2.0	185061.350	1.0
104.4653	7.00	-3.06	19224.464	2.5	114950.000	1.5
104.4688	28.01	-3.03	10115.660	2.5	105838.060	3.5
104.4710	28.01	-8.19	23108.280	2.5	118828.610	2.5
104.4728	24.02	-7.79	59.900	1.0	95778.600	0.0
104.4741	7.00	-2.92	19224.464	2.5	114942.000	2.5
104.4743	29.01	-5.56	26264.400	2.0	121981.680	2.0
104.4748	7.00	-2.94	19233.177	1.5	114950.000	5
104.4748	7.00	-2.78	19233.177	1.5	114950.000	1.5
104.4836	7.00	-4.06	19233.177	1.5	114942.000	2.5
104.4843	26.02	-3.92	134549.000	3.0	230257.150	2.0
104.4847	26.02	-3.42	134549.380	1.0	230257.150	2.0
104.4853	10.02	-3.99	314148.000	2.0	409855.230	1.0
104.4873	28.01	-2.05	10663.890	1.5	106369.300	1.5
104.4921	28.01	-8.63	23108.280	2.5	118809.340	1.5
104.4937	10.02	-3.40	314148.000	2.0	409847.530	3.0
104.4944	26.02	-2.75	134549.380	1.0	230248.260	1.0
104.4964	10.02	-4.26	314148.000	2.0	409845.080	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
104.4994	25.02	-3.67	121267.320	2.5	216961.620	3.5
104.5023	26.02	-6.95	20688.400	1.0	116380.070	1.0
104.5046	24.02	-5.57	20702.000	3.0	116391.600	2.0
104.5048	26.01	-9.86	667.640	2.5	96357.070	3.5
104.5051	24.02	-2.22	43286.400	4.0	138975.500	3.0
104.5073	28.01	-1.94	8393.900	4.5	104081.040	4.5
104.5109	26.02	-3.11	25142.400	3.0	120826.170	2.0
104.5142	24.02	-3.30	20851.300	4.0	116532.100	3.0
104.5190	26.02	-5.64	20688.400	1.0	116364.760	0.0
104.5212	26.02	-2.85	30716.200	2.0	126390.570	1.0
104.5244	24.02	-2.52	43304.100	2.0	138975.500	3.0
104.5248	23.02	-2.34	88327.960	3.5	183999.000	3.5
104.5272	26.02	-2.89	89334.510	2.0	185003.350	2.0
104.5309	7.00	-3.29	19224.464	2.5	114890.000	1.5
104.5317	26.02	-3.84	30725.800	1.0	126390.570	1.0
104.5404	7.00	-4.24	19233.177	1.5	114890.000	1.5
104.5437	24.02	-1.10	43321.700	3.0	138975.500	3.0
104.5455	23.02	-4.28	11513.800	.5	107165.900	1.5
104.5500	14.03	-2.59	218266.860	.5	313914.920	1.5
104.5545	26.02	-4.03	134549.000	3.0	230192.860	3.0
104.5573	26.02	-6.02	35803.700	2.0	131445.030	2.0
104.5620	28.02	-7.61	23108.700	4.0	118745.700	3.0
104.5652	23.02	-3.31	86809.390	5.5	182443.490	6.5
104.5664	28.02	-2.14	61339.200	4.0	156972.200	3.0
104.5669	9.02	-4.07	344436.960	.5	440069.510	1.5
104.5746	28.02	-3.19	82826.900	4.0	178452.400	3.0
104.5766	16.01	-1.12	14884.800	2.5	110508.480	3.5
104.5788	25.02	-3.88	121091.080	1.5	216712.730	2.5
104.5790	15.04	-1.39	352595.300	3.5	448216.800	3.5
104.5790	15.04	.15	352595.300	3.5	448216.800	4.5
104.5790	15.04	.04	352595.300	2.5	448216.800	3.5
104.5814	28.01	-2.92	10663.890	1.5	106283.160	2.5
104.5838	26.02	-2.94	89334.510	2.0	184951.620	3.0
104.5894	26.01	-8.95	667.640	2.5	96279.650	2.5
104.5904	25.01	-2.35	14593.820	3.0	110204.900	3.0
104.5956	26.02	-2.88	21462.200	4.0	117068.560	3.0
104.5959	6.00	-5.50	10192.630	2.0	105798.700	1.0
104.5994	27.02	-4.17	37021.000	3.5	132623.800	3.5
104.6051	28.01	-3.85	13550.390	3.5	109148.050	4.5
104.6113	26.04	-2.86	196845.000	4.0	292437.000	4.0
104.6122	26.02	-4.27	20051.100	6.0	115642.230	7.0
104.6200	26.02	-9.29	30088.840	3.0	125672.830	2.0
104.6268	28.01	-6.41	14995.570	2.5	110573.360	2.5
104.6290	7.00	-3.37	19233.177	1.5	114809.000	.5
104.6309	23.02	-4.44	11591.800	1.5	107165.900	1.5
104.6316	28.01	-4.39	0.000	2.5	95573.390	2.5
104.6354	26.02	-3.36	89491.390	1.0	158061.350	1.0
104.6397	27.02	-2.33	37021.000	3.5	132587.000	4.5
104.6488	25.02	-4.49	120974.250	.5	216531.990	1.5
104.6538	28.01	-2.02	10115.660	2.5	105668.780	2.5
104.6582	26.02	-7.94	30088.840	3.0	125637.980	3.0
104.6610	23.02	-4.06	11513.800	.5	107060.410	.5
104.6641	26.02	-6.18	19404.800	2.0	114946.550	3.0
104.6755	27.02	-1.34	15428.200	1.5	110961.590	1.5
104.6763	26.02	-6.61	40999.870	2.0	136532.450	2.0
104.6812	26.02	-2.58	70694.030	5.0	166222.200	4.0
104.6815	28.01	-3.37	24788.200	1.5	120316.020	.5
104.6907	23.02	-1.52	86306.400	4.5	181825.840	4.5
104.6965	28.02	-3.17	61339.200	4.0	156853.400	3.0
104.6989	26.02	-2.77	89491.390	1.0	185003.350	2.0
104.7058	24.02	-2.37	17850.000	2.0	113355.700	2.0
104.7081	9.01	-4.96	182864.400	1.0	178368.010	2.0
104.7192	26.02	-4.18	70728.750	4.0	166222.200	4.0
104.7192	26.02	-3.67	70694.030	5.0	166187.500	6.0
104.7271	14.03	-2.29	218428.670	1.5	313914.920	2.5
104.7271	14.03	-3.24	218428.670	1.5	313914.920	1.5
104.7298	28.01	-7.44	24788.200	1.5	120271.970	2.5
104.7325	25.02	-3.64	121480.240	3.5	216961.620	3.5
104.7339	28.01	-8.31	24835.930	.5	120316.020	.5
104.7366	23.02	-4.83	86809.390	5.5	182286.970	5.5
104.7398	25.01	-2.45	14593.820	3.0	110068.500	2.0
104.7431	27.02	-1.59	15811.400	.5	111283.100	.5
104.7465	23.02	-4.20	11591.800	1.5	107060.410	.5
104.7471	27.02	-2.74	37021.000	3.5	132489.000	2.5
104.7504	26.02	-8.20	40999.870	2.0	136464.900	1.0
104.7558	16.01	-0.00	14853.000	1.5	110313.130	2.5
104.7613	28.01	-3.79	23108.280	2.5	118563.390	3.5
104.7713	26.04	-1.91	196845.000	4.0	292291.000	5.0
104.7719	25.02	-4.03	121267.320	2.5	216712.730	2.5
104.7837	28.01	-7.46	24788.200	1.5	120222.890	1.5
104.7850	26.02	-2.05	50184.900	2.0	145618.390	2.0
104.7907	16.01	-5.91	14884.800	2.5	110313.130	2.5
104.7913	13.01	-1.68	37392.000	0.0	132819.900	1.0
104.7958	25.01	-2.55	14781.190	2.0	110204.900	3.0
104.7958	28.02	-3.96	16977.800	1.0	112401.500	1.0
104.7964	26.02	-2.49	20051.100	6.0	115474.250	6.0
104.8014	28.02	-3.64	83033.800	2.0	178452.400	3.0
104.8014	28.02	-4.96	83033.800	2.0	178452.400	2.0
104.8050	28.01	-7.66	24788.200	1.5	120203.490	2.5
104.8050	16.01	-6.88	14853.000	1.5	110268.330	2.5
104.8066	20.02	-4.63	247696.390	1.0	343110.240	0.0
104.8097	28.01	-7.83	24788.200	1.5	120199.180	1.5
104.8122	18.02	-3.47	144882.930	1.0	240291.660	2.0
104.8156	18.02	-2.92	144885.970	2.0	240291.660	2.0
104.8203	28.01	-8.08	24788.200	1.5	120189.550	.5
104.8219	18.00	-5.59	0.000	0.0	95399.870	1.0
104.8232	18.02	-2.78	144892.950	3.0	240291.660	2.0
104.8260	23.02	-3.89	11769.700	2.5	107165.900	1.5
104.8264	28.01	-3.34	32499.530	4.5	127895.330	3.5
104.8368	28.01	-1.07	32499.530	4.5	127885.860	4.5
104.8399	16.01	-4.57	14884.800	2.5	110268.330	2.5
104.8401	28.01	-2.85	10115.660	2.5	105499.050	3.5
104.8456	28.01	-3.65	24788.200	1.5	120166.520	1.5
104.8497	18.02	-3.35	144882.930	1.0	240257.590	1.0
104.8528	28.01	-1.17	32523.540	3.5	127895.330	3.5
104.8530	18.02	-3.51	144885.970	2.0	240257.590	1.0
104.8562	26.02	-3.22	21699.900	3.0	117068.560	3.0
104.8591	13.01	-1.81	37453.800	1.0	132819.900	1.0
104.8591	13.01	-1.33	37453.800	1.0	132819.900	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
104.8632	28.01	-2.33	32523.540	3.5	127885.860	4.5	105.2249	7.00	-4.14	19224.464	2.5	114259.000	1.5
104.8670	28.01	-2.40	10663.890	1.5	106022.790	4.5	105.2250	25.01	-2.88	14959.840	0.0	109994.300	1.0
104.8716	25.02	-4.56	30088.840	3.0	125443.580	4.0	105.2266	25.02	-1.88	43602.500	3.5	138635.460	2.5
104.8844	23.02	-3.29	86306.400	4.5	181649.450	3.5	105.2272	28.01	-9.41	23796.180	1.5	118828.610	2.5
104.8938	28.01	-1.96	23108.280	2.5	118442.810	1.5	105.2287	26.02	-3.45	135217.170	1.0	230248.260	1.0
104.8960	28.01	-5.10	0.000	2.5	95332.530	2.5	105.2346	7.00	-3.03	19233.177	1.5	114259.000	1.5
104.8964	25.02	-4.09	121091.080	1.5	216423.250	5.5	105.2353	26.02	-4.00	70694.030	5.0	165719.200	4.0
104.8981	28.01	-1.82	24835.930	5.5	120166.520	1.5	105.2371	7.00	-2.81	19224.464	2.5	114248.000	3.5
104.9052	28.01	-2.16	10115.660	2.5	105439.850	1.5	105.2388	24.02	-3.33	28725.800	3.0	120747.800	4.0
104.9056	16.01	-0.96	14853.000	1.5	110176.830	1.5	105.2399	26.02	-4.32	134549.380	1.0	229570.360	2.0
104.9063	26.02	-1.94	50295.200	3.0	145618.390	2.0	105.2449	23.02	-3.38	86809.390	5.5	181825.840	4.5
104.9105	26.02	-3.61	134937.840	2.0	230257.150	2.0	105.2451	25.02	-3.47	121267.320	2.5	216283.580	3.5
104.9137	28.01	-1.97	9330.040	3.5	104646.520	3.5	105.2463	17.00	-0.92	882.360	5.5	95897.565	1.5
104.9203	26.02	-4.68	134937.840	2.0	230248.260	1.0	105.2485	26.02	-5.85	21662.200	4.0	116475.440	3.0
104.9238	27.02	-1.97	37316.500	2.5	132623.800	3.5	105.2486	28.01	-9.32	23796.180	1.5	118809.340	1.5
104.9362	29.01	-1.06	22846.970	2.0	18142.970	3.0	105.2533	26.02	-7.91	40999.870	2.0	136008.740	3.0
104.9406	16.01	-7.30	14884.800	2.5	110176.830	1.5	105.2534	28.01	-1.94	24788.200	1.5	119796.980	2.5
104.9417	26.02	-2.98	42896.900	3.0	138187.930	3.0	105.2546	7.00	-2.90	19224.464	2.5	114232.200	1.5
104.9439	8.03	-0.45	501509.200	1.5	596798.200	1.5	105.2574	26.02	-2.44	21462.200	4.0	116467.410	4.0
104.9458	25.01	-2.85	14781.190	2.0	110068.500	2.0	105.2577	28.01	-2.90	10663.890	1.5	105668.780	2.5
104.9583	27.02	-2.53	37316.500	2.5	132592.400	1.5	105.2598	24.02	-1.81	17395.500	5.0	112398.500	4.0
104.9592	26.02	-5.25	21699.900	3.0	116975.050	2.0	105.2642	7.00	-4.08	19233.177	1.5	114232.200	1.5
104.9639	28.01	-4.02	23108.280	2.5	118379.110	2.5	105.2696	26.02	-4.39	70725.010	3.0	165719.200	4.0
104.9674	20.02	-2.81	243930.440	1.0	339198.090	1.0	105.2737	26.02	-3.22	70728.750	4.0	165719.200	4.0
104.9676	23.02	-1.64	86809.390	5.5	182076.860	5.5	105.2752	26.02	-2.63	20300.800	5.0	115289.910	5.0
104.9701	26.02	-3.91	134265.420	2.0	229530.670	1.0	105.2869	28.01	-7.53	23796.180	1.5	118774.760	5.5
104.9707	25.02	-3.70	121267.320	2.5	216531.990	1.5	105.2872	16.01	-4.60	14853.000	1.5	109831.280	1.5
104.9756	29.01	-1.06	26264.400	2.0	121524.670	3.0	105.2874	26.02	-3.08	135279.040	2.0	230257.150	2.0
104.9768	28.01	-1.78	8393.900	4.5	103653.030	3.5	105.2900	7.00	-3.93	19233.177	1.5	114209.000	5.5
104.9802	27.02	-3.53	37021.000	3.5	132277.100	3.5	105.2921	24.02	-5.54	25725.800	3.0	120699.700	3.0
104.9813	26.02	-3.95	134937.840	2.0	230192.860	3.0	105.2947	7.00	-3.40	19224.464	2.5	114196.000	2.5
104.9841	28.02	-4.25	16661.600	2.0	119194.100	2.0	105.2952	25.02	-3.62	121091.080	1.5	216062.130	2.5
104.9933	26.02	-4.31	134265.420	2.0	229509.560	3.0	105.2973	26.02	-3.48	135279.040	2.0	230248.260	1.0
104.9972	13.01	-2.99	37579.300	2.0	132819.900	1.0	105.2980	7.00	-4.85	19224.464	2.5	114193.000	1.5
104.9972	13.01	-1.81	37579.300	2.0	132819.900	2.0	105.2984	28.01	-2.58	9330.040	3.5	104298.230	4.5
104.9975	13.01	-1.06	37579.300	2.0	132819.900	3.0	105.3002	25.02	-1.93	43668.840	2.5	138635.460	2.5
104.9992	26.02	-2.89	20051.100	6.0	115289.910	5.0	105.3044	7.00	-2.37	19233.177	1.5	114196.000	2.5
105.0023	26.02	-6.53	40999.870	2.0	136235.840	1.0	105.3067	25.02	-1.94	43674.700	1.5	138635.460	2.5
105.0028	28.01	-7.22	25036.380	2.5	120271.970	2.5	105.3068	27.02	-5.72	37316.500	2.5	132277.100	3.5
105.0047	8.03	-1.40	501564.400	2.5	596798.200	1.5	105.3074	25.02	-3.50	39176.500	6.5	134136.600	7.5
105.0062	25.02	-3.73	121480.240	3.5	216712.730	2.5	105.3077	7.00	-3.34	19233.177	1.5	114193.000	1.5
105.0062	28.01	-7.03	25036.380	2.5	120268.810	3.5	105.3112	26.02	-2.92	30716.200	2.0	125672.830	2.0
105.0138	23.02	-2.07	86809.390	5.5	182034.970	4.5	105.3151	26.02	-4.84	135279.040	2.0	230192.860	3.0
105.0151	29.01	-1.35	22846.970	2.0	118071.340	1.0	105.3172	7.00	-2.90	19224.464	2.5	114175.736	3.5
105.0194	8.02	-4.20	297557.500	1.0	392778.000	1.0	105.3199	7.00	-2.46	19233.177	1.5	114182.000	2.5
105.0200	15.01	-3.68	8882.600	2.0	104102.600	2.0	105.3219	26.02	-2.56	30725.800	1.0	125672.830	2.0
105.0237	26.02	-2.99	134976.220	3.0	230192.860	3.0	105.3225	16.01	-4.21	14884.800	2.5	109831.280	1.5
105.0268	28.01	-7.86	25036.380	2.5	120250.170	3.5	105.3239	8.02	-4.77	306584.800	2.0	401530.000	2.0
105.0276	25.01	-2.58	14781.190	2.0	109994.300	1.5	105.3264	27.02	-0.89	15428.200	1.5	110371.200	2.5
105.0295	26.02	-4.91	21857.200	2.0	117068.560	3.0	105.3313	7.00	-2.42	19224.464	2.5	114163.000	1.5
105.0302	26.02	-3.80	70728.750	4.0	165939.470	5.0	105.3325	25.02	-4.24	120974.250	5.5	215911.730	1.5
105.0325	12.02	-2.10	496012.100	0.0	591220.700	1.0	105.3338	28.02	-3.89	16977.800	1.0	111914.100	2.0
105.0352	26.02	-3.26	42896.900	3.0	138103.120	4.0	105.3346	7.00	-4.46	19224.464	2.5	114160.000	2.5
105.0353	26.02	-3.95	50412.300	2.0	145618.390	2.0	105.3443	7.00	-3.61	19233.177	1.5	114160.000	1.5
105.0378	24.02	-3.06	17167.400	1.0	112371.200	2.0	105.3443	7.00	-2.51	19233.177	1.5	114160.000	2.5
105.0396	8.02	-1.22	306584.800	2.0	401787.000	2.0	105.3465	26.02	-1.99	49576.900	1.0	144501.740	2.0
105.0401	29.01	-1.35	21928.600	3.0	117130.360	2.0	105.3479	25.02	-3.96	121480.240	3.5	216403.860	2.5
105.0417	26.02	-5.31	40999.870	2.0	136200.130	3.0	105.3496	7.00	-3.22	19224.464	2.5	114146.525	2.5
105.0439	26.02	-3.08	21699.900	3.0	116898.220	2.0	105.3499	26.02	-2.40	30716.200	2.0	125637.980	3.0
105.0450	28.01	-7.31	10663.890	1.5	105861.190	2.5	105.3533	24.02	-3.39	25781.000	2.0	120699.700	3.0
105.0493	24.02	-1.45	17272.800	4.0	112466.200	3.0	105.3587	26.02	-3.02	135279.040	2.0	230192.860	3.0
105.0527	25.02	-3.37	121480.240	3.5	216670.580	4.5	105.3593	7.00	-4.37	19233.177	1.5	114146.525	2.5
105.0545	25.02	-4.45	120974.250	5.5	216162.900	1.5	105.3689	24.02	-1.90	18451.000	2.0	113355.700	2.0
105.0569	28.01	-7.99	25036.380	2.5	120222.890	1.5	105.3776	7.00	-2.75	19233.177	1.5	114130.000	5.5
105.0713	26.02	-5.91	20300.800	5.0	115474.250	6.0	105.3790	25.02	-3.99	121267.320	2.5	216162.900	1.5
105.0716	28.01	-1.97	9330.040	3.5	104503.220	2.5	105.3941	25.02	-4.42	121267.320	2.5	216149.320	3.5
105.0724	27.02	-4.74	37316.500	2.5	132489.000	2.5	105.3962	25.01	-7.07	14593.820	3.0	109473.900	4.0
105.0728	15.01	-2.75	8882.600	2.0	104054.700	1.0	105.4026	15.01	-2.73	8882.600	2.0	103756.900	1.0
105.0734	26.02	-5.66	21208.500	0.0	116380.070	1.0	105.4050	8.02	-3.53	273080.070	1.0	367952.200	1.0
105.0742	28.02	-3.91	17230.700	0.0	112401.500	1.0	105.4094	24.02	-1.08	20702.000	3.0	115570.200	4.0
105.0759	27.02	-4.46	15201.900	2.5	110371.200	2.5	105.4117	27.02	-3.66	37021.000	3.5	131887.100	4.5
105.0768	15.01	-4.59	8882.600	2.0	104051.100	3.0	105.4139	28.01	-3.04	23108.280	2.5	117972.470	3.5
105.0781	25.01	-2.62	14901.180	1.0	110068.500	2.0	105.4153	27.02	-3.19	37021.000	3.5	131883.900	2.5
105.0783	28.01	-7.37	25036.380	2.5	120203.490	2.5	105.4247	26.02	-3.00	21462.200	4.0	116316.630	5.0
105.0831	28.01	-7.54	25036.380	2.5	120199.180	1.5	105.4255	26.02	-1.79	50184.900	2.0	145038.610	3.0
105.0858	26.02	-3.30	135096.840	3.0	230257.150	2.0	105.4288	24.02	-3.00	20702.000	3.0	115552.700	3.0
105.0865	26.02	-3.22	135088.600	0.0	230248.260	1.0	105.4291	28.01	-3.83	14995.570	2.5	109846.000	3.5
105.0971	27.02												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
105.5291	28.01	-2.08	25036.380	2.5	119796.980	2.5
105.5294	25.02	-1.89	43602.500	3.5	138362.800	3.5
105.5304	13.01	-1.84	37453.800	1.0	132213.200	1.0
105.5391	26.02	-6.17	30886.400	4.0	125637.980	3.0
105.5398	28.01	-3.67	9330.040	3.5	104081.040	4.5
105.5431	15.01	-2.78	8882.600	2.0	103630.600	2.0
105.5482	26.02	-1.94	50295.200	3.0	145038.610	3.0
105.5492	23.02	-1.58	87544.460	4.5	182286.970	5.5
105.5507	25.02	-3.96	120974.250	.5	215715.410	1.5
105.5525	25.02	-1.70	43573.160	4.5	138312.700	4.5
105.5541	25.02	-2.26	43602.500	3.5	138360.620	2.5
105.5709	16.01	.16	24571.600	1.5	119294.700	2.5
105.5738	28.01	-1.96	32499.530	4.5	127219.970	3.5
105.5749	26.02	-4.18	21699.900	3.0	116419.390	2.0
105.5756	24.02	-1.87	20851.300	4.0	115570.200	4.0
105.5774	16.01	-1.61	24524.900	.5	119242.130	1.5
105.5784	23.02	-1.13	12187.000	4.5	106903.350	5.5
105.5795	29.01	-1.95	21928.600	3.0	116643.960	3.0
105.5807	23.02	-6.04	0.000	1.5	94714.250	.5
105.5839	23.02	-3.22	86938.010	2.5	181649.450	3.5
105.5852	25.02	-1.37	43602.500	3.5	138312.700	4.5
105.5883	16.01	-4.86	14853.000	1.5	109560.500	.5
105.5900	28.01	-3.64	0.000	2.5	94705.930	3.5
105.5903	26.02	-6.01	40999.870	2.0	135705.570	3.0
105.5951	24.02	-1.98	20851.300	4.0	115552.700	3.0
105.6034	25.02	-1.26	43668.840	2.5	138362.800	3.5
105.6051	26.02	-1.75	50276.100	4.0	144968.500	4.0
105.6253	24.02	-1.74	20994.600	5.0	115668.900	5.0
105.6264	26.02	-1.38	50295.200	3.0	144968.500	4.0
105.6279	25.02	-4.56	43573.160	4.5	138245.090	5.5
105.6281	25.02	-1.03	43668.840	2.5	138340.620	2.5
105.6295	16.01	-1.17	24571.600	1.5	119242.130	1.5
105.6311	25.02	-4.83	121480.240	3.5	216149.320	3.5
105.6346	25.02	-1.55	43674.700	1.5	138340.620	2.5
105.6373	8.02	-1.44	297557.500	1.0	392221.000	2.0
105.6461	28.01	-2.16	23108.280	2.5	117763.910	1.5
105.6468	29.01	-4.76	26264.400	2.0	120919.410	1.0
105.6550	26.02	-4.91	42896.900	3.0	137544.600	2.0
105.6562	28.01	-2.63	23796.180	1.5	118442.810	1.5
105.6586	25.02	-3.92	121267.320	2.5	215911.730	1.5
105.6653	26.02	-3.07	135554.410	4.0	230192.860	3.0
105.6704	13.01	-1.62	37579.300	2.0	132213.200	1.0
105.6736	26.02	-3.58	42896.900	3.0	137527.920	4.0
105.6749	25.02	-4.27	39174.400	5.5	133804.280	6.5
105.6757	25.02	-3.82	26851.100	4.5	121480.240	3.5
105.6758	26.02	-2.98	20481.900	4.0	115110.920	4.0
105.6772	25.02	-2.75	39176.500	6.5	133804.280	6.5
105.6789	26.02	-1.91	50412.300	2.0	145038.610	3.0
105.6811	25.02	-3.73	121091.080	1.5	215715.410	1.5
105.6832	25.02	-6.12	26857.800	2.5	121480.240	3.5
105.6855	25.02	-4.37	26859.900	3.5	121480.240	3.5
105.6874	14.01	-3.36	55309.610	1.5	149928.300	2.5
105.6879	26.02	-4.03	21857.200	2.0	116475.440	3.0
105.6901	24.02	-4.58	17850.000	2.0	112466.200	3.0
105.6955	29.01	-1.68	26264.400	2.0	120875.850	2.0
105.6988	25.02	-3.88	121267.320	2.5	215875.730	2.5
105.7005	23.02	-2.92	87218.920	3.5	181825.840	4.5
105.7008	25.02	-3.64	120974.250	.5	215580.870	.5
105.7050	14.01	-2.15	55325.440	2.5	149928.300	2.5
105.7064	23.02	-3.12	15579.800	1.5	110181.470	2.5
105.7241	26.02	-1.88	30857.800	3.0	125443.580	4.0
105.7261	24.03	-2.35	164920.000	3.5	259504.000	4.5
105.7273	28.01	-2.43	23796.180	1.5	118379.110	2.5
105.7285	25.02	-4.28	121480.240	3.5	216062.130	2.5
105.7289	23.02	-3.70	89417.500	3.5	183999.000	3.5
105.7293	24.02	-3.51	17272.800	4.0	111854.000	5.0
105.7355	24.02	-4.00	20994.600	5.0	115570.200	4.0
105.7447	27.02	-3.51	37316.500	2.5	131883.900	2.5
105.7450	26.02	-3.86	50276.100	4.0	144843.240	5.0
105.7463	25.02	-1.92	43668.840	2.5	138234.790	1.5
105.7505	26.02	-3.05	21857.200	2.0	116419.390	2.0
105.7505	25.02	-3.41	39174.400	5.5	133736.640	5.5
105.7508	14.01	-2.38	55309.610	1.5	149871.500	1.5
105.7523	27.02	-4.38	37021.000	3.5	131581.600	3.5
105.7528	25.02	-2.40	39176.500	6.5	133736.640	5.5
105.7529	25.02	-1.02	43674.700	1.5	138234.790	1.5
105.7537	28.02	-4.48	16661.600	2.0	111220.900	3.0
105.7561	26.02	-4.28	30886.400	4.0	125443.580	4.0
105.7583	26.02	-3.47	25142.400	3.0	119697.640	2.0
105.7599	28.01	-1.91	23108.280	2.5	117662.110	1.5
105.7624	26.02	-4.16	135705.570	3.0	230257.150	2.0
105.7657	28.02	-2.30	62606.300	3.0	157154.900	2.0
105.7686	14.01	-3.34	55325.440	2.5	149871.500	1.5
105.7691	28.01	-4.84	1506.940	1.5	96052.480	2.5
105.7738	23.02	-2.90	89457.670	2.5	183999.000	3.5
105.7828	26.02	-4.85	134976.220	3.0	229509.560	3.0
105.7838	23.02	-2.95	87544.460	4.5	182076.860	5.5
105.7856	28.01	-2.97	10115.660	2.5	104646.520	3.5
105.7909	26.02	-5.64	42896.900	3.0	137423.000	3.0
105.7945	26.02	-3.92	21857.200	2.0	116380.070	1.0
105.7964	24.02	-3.39	17850.000	2.0	112371.200	2.0
105.8007	27.02	-2.34	37021.000	3.5	131538.300	4.5
105.8173	28.02	-3.78	61339.200	4.0	155841.700	4.0
105.8213	25.02	-6.72	120974.250	.5	215473.200	1.5
105.8226	28.02	-5.49	23108.700	4.0	117606.500	3.0
105.8307	23.02	-1.87	87544.460	4.5	182034.970	4.5
105.8315	25.02	-4.32	121091.080	1.5	215580.870	.5
105.8343	26.02	-3.04	135705.570	3.0	230192.860	3.0
105.8375	26.01	-4.07	1872.600	4.5	96357.070	3.5
105.8427	24.02	-3.39	20702.000	3.0	115181.800	2.0
105.8481	23.02	-1.26	11966.300	3.5	106441.310	4.5
105.8498	26.02	-4.18	135096.840	3.0	229570.360	2.0
105.8575	26.02	-2.87	20481.900	4.0	114948.590	3.0
105.8641	28.02	-3.28	82277.000	1.0	176737.700	0.0
105.8650	25.02	-2.18	43668.840	2.5	138128.800	1.5
105.8666	24.02	-2.23	17395.500	5.0	111854.000	5.0
105.8715	25.02	-3.30	43674.700	1.5	138128.800	1.5
105.8783	25.02	-4.50	121267.320	2.5	215715.410	1.5
105.8796	29.01	-1.68	21928.600	3.0	116375.470	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
105.8850	26.02	-4.13	135088.600	0.0	229530.670	1.0
105.8980	23.02	-4.07	87218.920	3.5	181649.450	3.5
105.8995	25.02	-4.57	121091.080	1.5	215520.220	2.5
105.9096	29.01	-1.83	26264.400	2.0	120684.350	3.0
105.9179	26.02	-4.09	135096.840	3.0	229509.560	3.0
105.9215	25.02	-4.53	26857.800	2.5	121267.320	2.5
105.9239	25.02	-3.92	26859.900	3.5	121267.320	2.5
105.9365	25.02	-4.86	121267.320	2.5	215663.500	3.5
105.9462	28.01	-3.95	10115.660	2.5	104503.220	2.5
105.9470	28.01	-6.07	1506.940	1.5	95893.760	1.5
105.9483	26.02	-1.78	50184.900	2.0	144570.530	3.0
105.9653	24.02	-2.07	17272.800	4.0	111643.300	4.0
105.9698	26.01	-7.37	1872.600	4.5	96239.100	4.5
105.9704	24.03	-1.80	165440.000	4.5	259806.000	5.5
105.9705	28.02	-4.33	62606.300	3.0	156972.200	3.0
105.9719	9.03	-1.48	53537.000	0.0	147901.600	1.0
105.9744	25.02	-3.22	43573.160	4.5	137935.530	4.5
105.9789	28.01	-1.58	32499.530	4.5	126857.970	5.5
105.9848	26.02	-4.22	135217.170	1.0	229570.360	2.0
106.0051	25.02	-5.64	43573.160	4.5	137908.200	5.5
106.0074	25.02	-3.36	43602.500	3.5	137935.530	4.5
106.0162	24.02	-1.03	17528.800	6.0	111854.000	5.0
106.0187	28.01	-4.14	9330.040	3.5	103653.030	3.5
106.0256	26.02	-1.96	50184.900	2.0	144501.740	2.0
106.0279	28.02	-3.15	82172.900	3.0	176487.700	2.0
106.0294	26.02	-4.27	135217.170	1.0	229530.670	1.0
106.0301	26.02	-6.75	42896.900	3.0	137209.730	4.0
106.0325	26.02	-2.95	50276.100	4.0	144586.830	5.0
106.0327	18.02	-4.03	144882.930	1.0	239193.480	1.0
106.0361	18.02	-4.00	144885.970	2.0	239193.480	1.0
106.0381	28.02	-4.06	82277.000	1.0	176582.700	1.0
106.0508	26.02	-2.53	50276.100	4.0	144570.530	3.0
106.0543	26.02	-3.98	135279.040	2.0	229570.360	2.0
106.0632	29.01	-1.75	22846.970	2.0	117130.360	2.0
106.0655	23.02	-4.07	87544.460	4.5	181825.840	4.5
106.0656	25.02	-2.97	39174.400	5.5	133455.640	5.5
106.0680	26.02	-6.32	40999.870	2.0	135279.040	2.0
106.0680	25.02	-3.22	39176.500	6.5	133455.640	5.5
106.0723	26.02	-1.66	50295.200	3.0	144570.530	3.0
106.0747	20.02	-1.23	279353.640	1.0	373626.850	2.0
106.0785	26.02	-3.33	135239.740	4.0	229509.560	3.0
106.0838	27.02	-2.20	37316.500	2.5	131581.600	3.5
106.0908	27.02	-3.95	37021.000	3.5	131279.900	3.5
106.0959	23.02	-2.71	12187.000	4.5	106441.310	4.5
106.0990	26.02	-4.21	135279.040	2.0	229530.670	1.0
106.1026	26.02	-3.33	136008.740	3.0	230257.150	2.0
106.1033	24.02	-1.13	17395.500	5.0	111643.300	4.0
106.1041	28.02	-2.49	62606.300	3.0	156853.400	3.0
106.1135	26.02	-1.54	30716.200	2.0	124954.880	1.0
106.1196	25.02	-4.30	26857.800	2.5	121091.080	1.5
106.1227	26.02	-4.29	135279.040	2.0	229509.560	3.0
106.1244	26.02	-1.11	30725.800	1.0	124954.880	1.0
106.1294	24.02	-3.17	575.000	4.0	94799.600	5.0
106.1376	26.02	-7.50	40999.870	2.0	135217.170	1.0
106.1451	28.02	-3.75	82277.000	1.0	176487.700	2.0
106.1546	26.02	-3.98	135990.620	4.0	230192.860	3.0
106.1565	26.02	-5.59	19404.800	2.0	113605.370	3.0
106.1684	26.01	-3.60	0.000	4.5	94190.020	5.5
106.1689	26.01	-7.98	1872.600	4.5	96062.180	5.5
106.1710	26.02	-1.84	30716.200	2.0	124903.920	2.0
106.1750	26.02	-3.80	136008.740	3.0	230192.860	3.0
106.1774	26.02	-3.33	135239.740	4.0	229421.730	4.0
106.1780	8.03	-1.22	4997767.200	5	953943.700	1.5
106.1791	28.01	-2.94	32499.530	4.5	126679.980	4.5
106.1803	26.02	-7.20	19404.800	2.0	113588.200	2.0
106.1818	26.02	-1.61	30725.800	1.0	124903.920	2.0
106.1952	8.03	-1.42	499795.700	1.5	953961.900	2.5
106.2042	26.02	-3.20	50412.300	2.0	144570.530	3.0
106.2062	28.01	-1.75	32523.540	3.5	126679.980	4.5
106.2101	8.03	-1.18	499795.700	1.5	953948.700	1.5
106.2133	8.03	-1.61	499842.600	2.5	953992.800	3.5
106.2149	26.01	-2.23	0.000	4.5	94148.710	4.5
106.2222	28.02	-4.66	23108.700	4.0	117251.000	3.0
106.2271	8.03	-1.77	499807.000	3.5	954044.900	4.5
106.2272	26.02	-1.56	30716.200	2.0	124854.040	3.0
106.2357	26.02	-4.47	136117.940	2.0	230248.260	1.0
106.2389	26.02	-1.02	24558.800	5.0	118686.250	4.0
106.2481	8.03	-1.06	499842.600	2.5	953961.900	2.5
106.2506	25.01	-1.58	14325.860	4.0	108443.000	5.0
106.2524	25.01	-1.44	14325.860	4.0	108441.400	4.0
106.2551	25.01	-2.62	14325.860	4.0	108439.000	3.0
106.2589	28.01	-1.82	24788.200	1.5	118897.940	2.5
106.2630	8.03	-1.32	499842.600	2.5	953948.700	1.5
106.2639	26.02	-3.44	135316.420	5.0	229421.730	4.0
106.2674	24.02	-1.23	17272.800	4.0	111375.000	3.0
106.2677	25.02	-2.83	39174.400	5.5	133276.400	4.5
106.2678	16.03	-1.13	0.000	5	94101.900	1.5
106.2733	26.02	-5.30	40999.870	2.0	135090.840	3.0
106.2819	26.02	-2.68	50412.300	2.0	144501.740	2.0
106.2825	28.01	-7.97	24788.200	1.5	118877.090	1.5
106.2845	25.02	-6.03	43573.160	4.5	137660.240	3.5
106.2860	8.03	-1.17	499907.000	3.5	953992.800	3.5
106.2883	9.02	-4.82	387259.280	1.5	481343.010	5
106.2957	27.02	-2.62	37021.000	3.5	131098.200	4.5
106.2964	28.01	-3.09	23796.180	1.5	117872.780	2.5
106.2999	26.01	-4.38	0.000	4.5	94073.460	3.5
106.3003	29.01	-1.86	23998.220	1.0	118071.340	1.0
106.3106	24.03	-0.86	165440.000	4.5	259504.000	4.5
106.3177	25.02	-3.91	43602.500	3.5	137660.240	3.5
106.3195	26.02	-1.69	50276.100	4.0	144332.210	4.0
106.3209	8.03	-1.47	499907.000	3.5	953961.900	2.5
106.3218	27.02	-4.89	46438.300	4.5	140492.400	4.5
106.3308	26.02	-1.47	30857.800	3.0	124903.920	2.0
106.3340	28.01	-4.36	14995.570	2.5	109038.840	1.5
106.3373	28.01	-9.90	24788.200	1.5	118828.610	2.5
106.3411	26.02	-2.41	50295.200	3.0	144332.210	4.0
106.3535	25.02	-2.29	43573.160	4.5	137599.200	3.5
106.3589	26.02	-4.89	136235.840	1.0	230257.150	2.0
106.3591	28.01	-9.80	24788.200	1.5	118809.340	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
106.3616	24.02	-3.36	355.800	3.0	94374.700	4.0	106.7355	26.01	-3.68	384.770	3.5	94073.460	3.5
106.3658	24.02	-1.76	18451.000	2.0	112466.200	3.0	106.7367	26.02	-2.50	20051.100	6.0	113739.620	6.0
106.3844	17.01	-4.28	0.000	2.0	93998.700	1.0	106.7388	7.00	-2.05	19224.464	2.5	112911.079	3.5
106.3847	26.02	-3.61	24558.800	5.0	118557.250	5.0	106.7393	7.00	-3.62	19224.464	2.5	112910.630	2.5
106.3867	25.02	-3.64	43602.500	3.5	137599.200	3.5	106.7411	7.00	-4.17	19224.464	2.5	112909.076	1.5
106.3872	26.02	-4.59	30857.800	3.0	124854.040	3.0	106.7437	28.02	-3.20	63472.600	2.0	157154.900	2.0
106.3892	11.02	-2.10	417415.500	1.5	511410.000	2.5	106.7465	25.02	-2.40	43602.500	3.5	137282.400	2.5
106.3906	9.02	-4.85	387367.920	2.5	481361.170	1.5	106.7493	7.00	-4.33	19233.177	1.5	112910.630	2.5
106.3923	9.02	-4.35	348702.800	5.5	442694.580	1.5	106.7510	7.00	-3.08	19233.177	1.5	112909.076	1.5
106.3927	25.02	-3.77	43668.840	2.5	137660.240	3.5	106.7517	9.02	-4.24	351330.800	1.5	445006.130	2.5
106.3982	28.01	-8.01	24788.200	1.5	118774.760	5.5	106.7539	24.02	-3.95	355.800	3.0	94029.200	3.0
106.4098	26.02	-5.47	40999.870	2.0	134976.220	3.0	106.7568	7.00	-4.24	19233.177	1.5	112904.000	5.5
106.4195	28.01	-3.07	23796.180	1.5	117763.910	1.5	106.7614	7.00	-1.75	19224.464	2.5	112891.238	3.5
106.4196	26.02	-3.85	30886.400	4.0	124854.040	3.0	106.7674	26.02	-5.87	30888.840	3.0	123750.390	3.0
106.4244	27.02	-1.84	37316.500	2.5	131279.900	3.5	106.7687	26.02	-4.78	136532.450	2.0	230192.860	3.0
106.4326	24.02	-4.30	18510.000	3.0	112466.200	3.0	106.7717	25.01	-4.94	14781.190	2.0	108439.000	3.0
106.4338	26.02	-3.79	135554.410	4.0	229509.560	3.0	106.7737	25.01	-1.32	14781.190	2.0	108437.200	2.0
106.4532	26.02	-7.18	40999.870	2.0	134937.840	2.0	106.7753	28.01	-2.72	24788.200	1.5	118442.810	1.5
106.4603	26.02	-1.23	50184.900	2.0	144116.640	3.0	106.7755	25.01	-2.32	14781.190	2.0	108435.600	1.0
106.4608	9.02	-4.34	348817.600	1.5	442748.850	2.5	106.7768	8.03	5.7	419533.900	1.5	513187.200	2.5
106.4619	25.02	-4.05	43668.840	2.5	137599.200	3.5	106.7773	24.02	-2.25	20702.000	3.0	114354.900	4.0
106.4657	25.01	-4.04	2430.080	3.5	96357.070	3.5	106.7774	20.02	-2.98	247696.390	1.0	341349.190	1.0
106.4734	24.02	-4.43	18451.000	2.0	112371.200	2.0	106.7820	26.02	-3.59	21462.200	4.0	115110.920	4.0
106.4761	28.02	-3.07	62606.300	3.0	156524.100	2.0	106.7832	8.03	7.3	419550.600	2.5	513198.300	3.5
106.4774	15.01	-4.13	8882.600	2.0	102799.200	1.0	106.7953	7.00	-4.06	19233.177	1.5	112870.270	5.5
106.4825	25.02	-2.81	39174.400	5.5	133086.570	4.5	106.7957	17.01	-1.38	696.100	1.0	94332.800	0.0
106.4905	20.02	-2.88	247696.390	1.0	341601.460	2.0	106.7958	8.03	-1.58	419550.600	2.5	513187.200	2.5
106.4947	7.01	-3.89	15316.200	2.0	109217.600	2.0	106.7970	26.02	-2.70	42896.900	3.0	136532.450	2.0
106.4958	7.01	-5.58	15316.200	2.0	109216.600	1.0	106.8045	9.02	-3.17	349007.250	2.5	442636.270	3.5
106.4961	26.02	-3.09	42896.900	3.0	136797.050	3.0	106.8080	26.02	-4.50	20051.100	6.0	113677.010	5.0
106.4998	26.02	-3.37	42896.900	3.0	136793.820	2.0	106.8130	16.01	-1.16	24524.900	5.5	118146.500	1.5
106.5093	24.02	-1.74	18510.000	3.0	112398.500	4.0	106.8189	26.02	-1.04	24940.900	4.0	118557.250	5.0
106.5112	28.01	-6.71	25036.380	2.5	118923.200	3.5	106.8221	25.02	-5.07	43668.840	2.5	137282.400	2.5
106.5137	24.02	-1.22	18581.600	4.0	112466.200	3.0	106.8221	7.00	-2.92	19224.464	2.5	112838.020	1.5
106.5292	11.05	-4.43	1040223.000	1.0	1134094.000	1.0	106.8281	26.02	-6.14	30088.840	3.0	123697.180	2.0
106.5292	11.05	-4.91	1040223.000	2.0	1134094.000	1.0	106.8288	25.02	-2.94	43674.700	1.5	137282.400	2.5
106.5292	11.05	-4.91	1040223.000	1.0	1134094.000	2.0	106.8289	26.02	-4.97	50276.100	4.0	143883.740	5.0
106.5292	11.05	-4.24	1040223.000	2.0	1134094.000	2.0	106.8298	28.01	-2.43	24835.930	5.5	118442.810	1.5
106.5292	11.05	-8.89	1040223.000	3.0	1134094.000	2.0	106.8321	7.00	-4.42	19233.177	1.5	112838.020	1.5
106.5292	11.05	-8.89	1040223.000	2.0	1134094.000	3.0	106.8336	26.01	-5.75	384.770	3.5	93988.300	2.5
106.5292	11.05	0.1	1040223.000	3.0	1134094.000	3.0	106.8376	7.00	-4.03	19224.464	2.5	112824.459	2.5
106.5349	28.01	-2.43	23796.180	1.5	117662.110	1.5	106.8415	26.02	-4.57	132785.360	4.0	226381.910	3.0
106.5362	26.02	-4.53	135705.570	3.0	229570.360	2.0	106.8462	27.02	-3.31	37316.500	2.5	130909.000	1.5
106.5376	25.02	-4.20	43573.160	4.5	137436.700	4.5	106.8473	9.02	-3.63	348702.800	5.5	442294.310	1.5
106.5399	28.01	-6.64	25036.380	2.5	118897.940	2.5	106.8476	7.00	-2.03	19233.177	1.5	112824.459	2.5
106.5403	24.02	-1.16	18510.000	3.0	112371.200	2.0	106.8480	28.01	-3.79	24788.200	1.5	118379.110	2.5
106.5519	23.02	-1.67	16330.500	1.5	110181.470	2.5	106.8512	7.00	-3.31	19224.464	2.5	112812.518	2.5
106.5535	26.01	-4.43	2430.080	3.5	96279.650	2.5	106.8533	20.02	-3.57	24561.1880	0.0	339198.090	1.0
106.5557	28.02	-3.94	84604.800	1.0	178452.400	2.0	106.8562	24.02	-4.37	181.900	2.0	93765.600	2.0
106.5558	25.01	-7.75	14593.820	3.0	108441.400	4.0	106.8603	26.02	-2.93	136612.780	4.0	230192.860	3.0
106.5561	24.02	-3.76	181.900	2.0	94029.200	3.0	106.8612	7.00	-1.70	19233.177	1.5	112812.518	2.5
106.5585	25.01	-1.30	14593.820	3.0	108439.000	3.0	106.8614	26.02	-4.62	25142.400	3.0	118721.600	2.0
106.5601	28.01	-5.11	24788.200	1.5	118631.950	5.5	106.8644	7.00	-3.98	19224.464	2.5	112801.031	1.5
106.5605	25.01	-2.32	14593.820	3.0	108437.200	2.0	106.8649	10.01	-4.07	224087.020	1.5	317663.130	1.5
106.5636	28.01	-6.99	25036.380	2.5	118877.090	1.5	106.8663	16.01	-1.59	24571.600	1.5	118146.500	1.5
106.5638	26.02	-3.40	50276.100	4.0	144116.640	3.0	106.8668	7.00	-4.60	19233.177	1.5	112807.567	5.5
106.5651	28.01	-5.18	10663.890	1.5	104503.220	2.5	106.8681	7.00	-2.36	19224.464	2.5	112797.725	3.5
106.5669	28.01	-8.02	25036.380	2.5	118874.110	3.5	106.8743	7.00	-3.43	19233.177	1.5	112801.031	1.5
106.5710	25.02	-4.38	43602.500	3.5	137436.700	4.5	106.8767	28.02	-5.11	23108.700	4.0	116674.500	4.0
106.5782	29.01	-2.57	26264.400	2.0	120092.200	2.0	106.8814	26.02	-3.33	136008.740	3.0	229570.360	2.0
106.5783	26.02	-3.27	21462.200	4.0	115289.910	5.0	106.8916	9.02	-3.24	348817.600	1.5	442370.280	5.5
106.5807	28.01	-4.10	1506.940	1.5	95332.630	2.5	106.8942	23.02	-4.50	11769.700	2.5	105320.180	1.5
106.5854	26.02	-1.85	50295.200	3.0	144116.640	3.0	106.8953	26.02	-5.93	40999.870	2.0	134549.380	1.0
106.5906	24.02	-2.25	18581.600	4.0	112398.500	4.0	106.8957	26.02	-7.78	40999.870	2.0	134549.380	1.0
106.5986	26.02	-1.86	50276.100	4.0	144085.970	4.0	106.8960	28.02	-2.95	83033.800	2.0	176582.700	1.0
106.5995	26.01	-8.41	2430.080	3.5	96239.100	4.5	106.9017	26.02	-1.71	25142.400	3.0	118686.250	4.0
106.6021	23.02	-2.86	16374.700	2.5	110181.470	2.5	106.9091	28.01	-4.95	10115.660	2.5	103653.030	3.5
106.6026	23.02	-4.17	11513.800	5.5	105320.180	1.5	106.9107	25.01	-1.17	14901.180	1.0	108437.200	2.0
106.6053	26.02	-4.06	135705.570	3.0	229509.560	3.0	106.9109	7.00	-3.23	19224.464	2.5	112760.325	2.5
106.6070	26.02	-4.20	130256.270	5.0	224058.700	4.0	106.9113	7.00	-4.85	19224.464	2.5	112759.966	1.5
106.6101	24.02	-3.89	575.000	4.0	94374.700	4.0	106.9125	25.01	-1.48	14901.180	1.0	108435.600	1.0
106.6132	29.01	-1.91	22846.970	2.0	116643.960	3.0	106.9155	28.01	-5.28	13550.390	3.5	107082.210	2.5
106.6141	26.02	-9.2	24558.800	5.0	118355.010	6.0	106.9193	29.01	-1.06	22846.970	2.0	116375.470	3.0
106.6143	28.01	-3.38	24835.930	5.5	118631.950	5.5	106.9208	7.00	-3.78	19233.177	1.5	112760.325	2.5
106.6175	26.02	-3.29	34812.400	0.0	128605.650	1.0	106.9210	28.01	-1.70	25036.380	2.5	118563.390	3.5
106.6186	28.01	-8.15	25036.380	2.5	118828.610	2.5	106.9212	7.00	-3.29	19233.177	1.5	112759.966	1.5
106.6186	26.02	-3.58	134444.900	1.0	230257.150	2.0	106.9233	24.02	-6.22	17850.000	2.0	111275.000	3.0
106.6195	26.02	-1.50	24558.800										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
107.0293	9.02	-4.46	390077.800	2.5	483510.170	2.5
107.0306	29.01	-2.69	21928.600	3.0	115359.800	4.0
107.0307	26.02	-4.34	135990.620	4.0	229421.730	4.0
107.0518	26.02	-2.62	136117.940	2.0	229530.670	1.0
107.0538	26.02	-3.19	21699.900	3.0	115110.920	4.0
107.0551	24.02	-5.20	355.800	3.0	93765.600	2.0
107.0557	26.02	-2.16	24940.900	4.0	118350.240	4.0
107.0585	8.02	-2.61	273080.070	1.0	366486.910	1.0
107.0590	28.01	-2.21	25036.380	2.5	118442.810	1.5
107.0597	26.01	-4.30	667.640	2.5	94073.460	3.5
107.0620	28.01	-0.94	23108.280	2.5	116512.060	3.5
107.0675	26.02	-3.30	136793.820	2.0	230192.860	3.0
107.0712	26.02	-3.34	136797.050	3.0	230192.860	3.0
107.0760	26.02	-4.79	136117.940	2.0	229509.560	3.0
107.0815	27.02	-5.78	37021.000	3.5	130407.800	2.5
107.0834	7.00	-2.63	19224.464	2.5	112609.612	1.5
107.0884	28.02	-4.64	63472.600	2.0	156853.400	3.0
107.0934	7.00	-3.78	19233.177	1.5	112609.612	1.5
107.0937	26.02	-2.87	20300.800	5.0	113677.010	5.0
107.1005	26.02	-2.44	136200.130	3.0	229570.360	2.0
107.1007	9.02	-3.23	349266.200	3.5	442636.270	3.5
107.1047	17.01	-1.19	0.000	2.0	93366.600	2.0
107.1057	23.03	-0.28	144273.100	2.0	237638.800	2.0
107.1119	24.02	-2.66	20994.600	5.0	114354.900	4.0
107.1124	26.02	-2.96	89084.790	3.0	182444.700	3.0
107.1321	28.01	-7.12	25036.380	2.5	118379.110	2.5
107.1415	26.02	-5.05	20300.800	5.0	113635.340	4.0
107.1422	26.02	-3.62	89084.790	3.0	182418.700	4.0
107.1441	7.00	-2.86	19233.177	1.5	112565.470	5.0
107.1472	9.02	-3.77	348817.600	1.5	442147.190	2.5
107.1491	26.02	-2.65	89084.790	3.0	182412.650	4.0
107.1534	26.02	-3.76	89084.790	3.0	182408.910	3.0
107.1565	23.02	-3.81	88327.960	3.5	181649.450	3.5
107.1570	24.04	-0.23	226130.000	2.0	319451.000	3.0
107.1574	26.01	-5.49	667.640	2.5	93988.300	2.5
107.1624	23.02	-3.23	11966.600	3.5	105282.650	2.5
107.1688	9.02	-3.93	390210.430	3.5	483521.140	3.5
107.1703	26.02	-4.49	136200.130	3.0	229509.560	3.0
107.1722	26.02	-3.78	89084.790	3.0	182392.550	2.0
107.1730	13.02	-2.07	115956.210	2.5	209263.250	2.5
107.1730	13.02	-0.77	115956.210	2.5	209263.250	3.5
107.1747	26.02	-1.19	24940.900	4.0	118246.520	3.0
107.1757	13.02	-0.93	115958.500	1.5	209263.250	2.5
107.1774	26.02	-3.30	42896.900	3.0	136200.130	3.0
107.1781	17.01	-0.81	696.100	1.0	93998.700	1.0
107.1805	26.02	-2.56	25142.400	3.0	118442.920	3.0
107.1871	26.02	-3.28	136235.840	1.0	229530.670	1.0
107.1960	9.02	-2.57	349007.250	2.5	442294.310	1.5
107.2019	26.02	-3.93	130756.840	6.0	224038.730	5.0
107.2129	24.02	-0.55	18581.600	4.0	111854.000	5.0
107.2137	9.02	-3.16	349007.250	2.5	442278.930	2.5
107.2207	26.02	-5.41	40999.870	2.0	134265.420	2.0
107.2261	25.02	-2.01	43674.700	1.5	136935.600	5.0
107.2352	8.01	-6.86	26830.500	1.5	120083.500	5.0
107.2378	25.02	-1.23	43573.160	4.5	136823.860	3.5
107.2402	26.02	-3.22	21699.900	3.0	114948.550	3.0
107.2531	15.03	-1.28	226888.600	1.0	320126.000	2.0
107.2541	26.02	-2.26	136185.170	5.0	229421.730	4.0
107.2554	28.02	-3.11	62606.300	3.0	155841.700	4.0
107.2713	26.02	-4.36	136200.130	3.0	229421.730	4.0
107.2716	25.02	-3.37	43602.500	3.5	136823.860	3.5
107.2719	26.02	-4.12	42896.900	3.0	136117.940	2.0
107.2733	25.02	-1.77	43668.840	2.5	136888.700	1.5
107.2746	15.04	-2.82	352595.300	2.5	445814.000	2.5
107.2746	15.04	-1.51	352595.300	3.5	445814.000	2.5
107.2746	15.04	-1.67	352595.300	2.5	445814.000	1.5
107.2800	25.02	-3.11	43674.700	1.5	136888.700	1.5
107.2871	26.02	-1.34	25142.400	3.0	118350.240	4.0
107.2944	27.02	-5.45	15201.900	2.5	108403.400	1.5
107.2986	16.03	-1.11	950.200	1.5	94148.100	2.5
107.3018	26.02	-4.72	20481.900	4.0	113677.010	5.0
107.3029	25.02	-1.39	43602.500	3.5	136796.610	2.5
107.3072	8.01	-6.64	26810.700	2.5	120001.100	1.5
107.3247	20.02	-3.33	272188.700	1.0	365363.880	1.0
107.3250	15.03	-1.98	226888.600	1.0	320063.500	1.0
107.3300	8.01	-5.82	26830.500	1.5	120001.100	1.5
107.3335	28.01	-2.32	23108.280	2.5	116275.810	3.5
107.3371	15.03	-1.67	226888.600	1.0	320053.000	1.0
107.3390	27.02	-2.88	37021.000	3.5	130183.800	3.5
107.3397	26.01	-5.30	3117.480	1.5	96279.650	2.5
107.3479	25.02	-4.88	43668.840	2.5	136823.860	3.5
107.3498	26.02	-3.51	20481.900	4.0	113635.340	4.0
107.3516	26.02	-4.39	89334.510	2.0	182486.400	1.0
107.3518	16.03	-4.89	950.200	1.5	94101.900	1.5
107.3581	26.02	-4.62	89334.510	2.0	182480.720	2.0
107.3653	9.02	-2.32	349007.250	2.5	442147.190	2.5
107.3730	24.02	-0.61	18510.000	3.0	111643.300	4.0
107.3743	29.01	-1.10	23998.220	1.0	117130.360	2.0
107.3779	10.01	-4.18	224699.270	5.0	317828.320	5.0
107.3794	25.02	-3.40	43668.840	2.5	136796.610	2.5
107.3818	26.01	-5.89	862.630	1.5	93988.300	2.5
107.3843	26.02	-5.66	20481.900	4.0	113605.370	3.0
107.3861	25.02	-3.79	43674.700	1.5	136796.610	2.5
107.3944	12.02	-2.14	496012.100	0.0	589126.800	1.0
107.3955	26.02	-3.10	35803.700	2.0	128917.510	2.0
107.3977	26.02	-2.49	42896.900	3.0	136008.740	3.0
107.3996	26.02	-2.29	89334.510	2.0	182444.700	3.0
107.4004	24.02	-2.69	17395.500	5.0	110505.000	6.0
107.4051	26.02	-4.57	136464.900	1.0	229570.360	2.0
107.4066	26.02	-1.91	25142.400	3.0	118246.520	3.0
107.4080	26.01	-7.42	384.770	3.5	93487.710	3.5
107.4114	26.01	-7.45	384.770	3.5	93484.750	4.5
107.4139	28.01	-1.33	23796.180	1.5	116893.980	2.5
107.4186	26.02	-2.70	42896.900	3.0	135990.620	4.0
107.4191	26.02	-4.35	117521.910	4.0	210615.210	3.0
107.4214	26.02	-3.59	21857.200	2.0	114948.550	3.0
107.4214	27.02	-4.85	37316.500	2.5	130407.800	2.5
107.4292	28.01	-2.16	24788.200	1.5	117872.780	2.5
107.4305	28.02	-5.59	23108.280	4.0	116192.100	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
107.4458	28.01	-4.10	13550.390	3.5	106620.530	3.5
107.4556	24.02	-2.23	18581.600	4.0	111643.300	4.0
107.4598	26.02	-3.50	89334.510	2.0	182392.550	2.0
107.4664	20.02	-2.84	247696.390	1.0	340748.720	2.0
107.4674	28.02	-2.91	63472.600	2.0	156524.100	2.0
107.4761	23.02	-2.54	16810.900	4.5	109854.870	3.5
107.4874	26.02	-2.72	30716.200	2.0	123750.390	3.0
107.4946	28.01	-2.40	23796.180	1.5	116824.150	2.5
107.4957	8.01	-5.07	26810.700	2.5	119837.700	2.5
107.5024	26.02	-1.21	25142.400	3.0	118163.560	2.0
107.5122	9.02	-3.14	349266.200	3.5	442278.930	2.5
107.5144	26.01	-6.22	384.770	3.5	93395.600	2.5
107.5186	8.01	-6.22	26830.500	1.5	119837.700	2.5
107.5228	29.02	-4.19	60804.900	4.5	153808.400	4.5
107.5242	17.01	-0.38	996.400	0.0	93998.700	1.0
107.5327	26.02	-4.12	89491.390	1.0	182486.400	1.0
107.5362	11.02	-1.29	418418.100	1.5	511410.000	2.5
107.5392	26.02	-4.65	89491.390	1.0	182480.720	2.0
107.5464	26.02	-3.61	137209.730	4.0	230192.860	3.0
107.5489	26.02	-5.41	30716.200	2.0	123697.180	2.0
107.5544	24.02	-2.84	17528.800	6.0	110505.000	6.0
107.5550	28.01	-1.75	24788.200	1.5	117763.910	1.5
107.5556	27.02	-3.97	15428.200	1.5	108403.400	1.5
107.5600	26.02	-4.19	30725.800	1.0	123697.180	2.0
107.5687	10.01	-4.90	224699.270	5.0	317663.130	1.5
107.5696	26.02	-3.24	24558.800	5.0	117521.910	4.0
107.5753	26.02	-2.90	49576.900	1.0	142535.070	2.0
107.5766	24.03	-2.09	165440.000	4.5	258397.000	4.5
107.5803	25.03	-3.46	119445.500	2.0	212399.300	3.0
107.6008	28.01	-1.77	25036.380	2.5	117972.470	3.5
107.6102	28.01	-2.83	24835.930	5.0	117763.910	1.5
107.6148	24.02	-0.73	18451.000	2.0	111375.000	3.0
107.6413	26.02	-4.28	89491.390	1.0	182392.550	2.0
107.6464	26.02	-3.28	136612.780	4.0	229509.560	3.0
107.6475	26.02	-5.54	20688.400	1.0	113584.200	2.0
107.6512	26.02	-1.46	30857.800	3.0	123750.390	3.0
107.6644	24.02	-8.76	17272.800	4.0	110154.000	4.0
107.6647	9.02	-2.27	349266.200	3.5	442147.190	2.5
107.6712	10.02	-2.46	319444.900	1.0	412320.210	2.0
107.6729	28.01	-1.89	24788.200	1.5	117662.110	1.5
107.6746	24.02	-0.80	25725.800	3.0	118598.200	3.0
107.6795	10.02	-1.87	319444.900	1.0	412313.110	1.0
107.6805	27.02	-1.95	37316.500	2.5	130183.800	3.5
107.6832	24.02	-2.52	18510.000	3.0	111375.000	3.0
107.6844	26.02	-5.34	30868.400	4.0	123750.390	3.0
107.6944	26.02	-2.95	30088.840	3.0	122944.150	4.0
107.6994	27.02	-3.89	15201.900	2.5	108052.900	2.5
107.7021	10.02	-2.25	319444.900	1.0	412293.590	0.0
107.7025	25.02	-2.88	43573.160	4.5	136421.500	5.5
107.7041	25.01	-3.21	14325.860	4.0	107172.800	3.0
107.7129	26.02	-3.23	30857.800	3.0	123697.180	2.0
107.7143	16.02	-0.56	11320.800	2.0	104159.000	2.0
107.7152	28.02	-4.46	62606.300	3.0	155443.700	2.0
107.7160	26.02	-3.64	30716.200	2.0	123552.950	1.0
107.7164	28.01	-2.61	25036.380	2.5	117872.780	2.5
107.7271	26.02	-2.82	30725.800	1.0	123552.950	1.0
107.7282	28.01	-1.60	24835.930	5	117662.110	1.5
107.7353	26.01	-8.16	667.640	2.5	93487.710	3.5
107.7387	24.02	-2.00	25781.000	2.0	118598.200	3.0
107.7470	26.02	-7.56	30088.840	3.0	122898.840	2.0
107.7482	26.02	-4.09	136612.780	4.0	229421.730	4.0
107.7486	26.02	-3.57	42896.900	3.0	133705.570	3.0
107.7564	26.02	-3.08	35803.700	2.0	126605.650	1.0
107.7663	24.02	-3.80	18581.600	4.0	111375.000	3.0
107.7859	26.02	-3.66	136793.820	2.0	229570.360	2.0
107.7873	29.01	-2.63	26264.400	2.0	119039.680	2.0
107.7896	26.02	-4.95	136797.050	3.0	229570.360	2.0
107.7936	26.02	-3.30	137423.000	3.0	230192.860	3.0
107.7988	23.02	-2.67	91710.430	3.5	184475.800	4.5
107.8068	24.02	-4.94	17395.500	5.0	110154.000	4.0
107.8081	26.02	-4.68	130040.560	7.0	222797.970	8.0
107.8257	29.01	-4.12	14995.570	2.5	107737.810	1.5
107.8275	26.02	-7.25	30088.840	3.0	128289.550	3.0
107.8367	29.01	-5.37	13550.390	3.5	106283.160	2.5
107.8398	26.02	-3.47	30725.800	1.0	123455.920	0.0
107.8407	29.01	-2.47	29070.930	1.5	121800.340	1.5
107.8423	26.01	-6.85	667.640	2.5	93395.600	2.5
107.8428	29.01	-2.76	25036.380	2.5	117763.910	1.5
107.8443	27.02	-4.48	37021.000	3.5	129747.300	2.5
107.8566	26.02	-3.74	136793.820	2.0	229509.560	3.0
107.8603	26.02	-3.80	137544.600	2.0	230257.150	2.0
107.8603	26.02	-3.86	136797.050	3.0	229509.560	3.0
107.8690	23.02	-3.92	8894.380	2.5	181649.450	3.5
107.8704	25.03	-3.31	119661.500	2.0	122665.300	4.0
107.8706	26.02	-4.52	137544.600	2.0	230248.260	1.0
107.8778	26.02	-1.63	25725.800	3.0	118423.300	2.0
107.8795	26.02	-4.15	137561.100	1.0	230257.150	2.0
107.8913	27.02	-2.91	37021.000	3.5	129706.900	3.5
107.8946	9.02	-2.74	348702.800	5.0	441385.880	1.5
107.9019	23.01	-2.19	23108.280	2.5	115785.060	1.5
107.9039	26.02	-4.89	137573.200	0.0	230248.260	1.0
107.9085	24.02	-2.85	17272.800	4.0	109943.900	5.0
107.9092	17.01	-4.29	696.100	1.0	93366.600	2.0
107.9157	26.02	-4.48	137527.920	4.0	230192.860	3.0
107.9203	26.01	-7.00	667.640	2.5	93328.600	1.5
107.9243	26.02	-3.16	42896.900	3.0	135554.410	4.0
107.9288	24.02	-2.22	20702.000	3.0	113355.700	2.0
107.9351	26.02	-3.55	137544.600	2.0	230192.860	3.0
107.9403	8.02	-4.86	273080.070	1.0	365723.900	1.0
107.9421	26.02	-1.02	25781.000	2.0	118423.300	2.0
107.9536	26.02	-2.03	50276.100	4.0	142908.480	5.0
107.9598	28.01	-3.85	10115.660	2.5	102742.740	1.5
107.9614	28.01	-3.71	25036.380	2.5	117662.110	1.5
107.9626	26.02	-4.51	136797.050	3.0	229421.730	4.0
107.9626	27.02	-3.16	15428.200	1.5	108052.900	2.5
107.9710	23.02	-3.63	89417.500	3.5	182034.970	4.5
107.9762	9.02	-2.47	348702.800	5	441315.800	5
107.9837	26.02	-4.03	131445.030	2.0	224051.630	3.0
107.9855	27.02	-9.15	17766.200	3.5	110371.200	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
107.9882	17.00	-2.13	0.000	1.5	92602.700	4.5	108.4538	26.02	-2.09	30716.200	2.0	122921.370	1.0
107.9972	23.02	-4.41	92052.550	4.5	184647.530	5.5	108.4562	7.01	-7.76	48.700	1.0	92251.800	1.0
108.0007	27.02	-3.92	15811.400	5.5	108403.400	1.5	108.4580	7.01	-7.25	48.700	1.0	92250.300	2.0
108.0135	26.02	-3.96	24940.900	4.0	117521.910	4.0	108.4588	25.02	-3.08	43668.840	2.5	135869.760	3.5
108.0153	26.02	-2.83	50276.100	4.0	142855.590	4.0	108.4589	26.01	-6.55	1872.600	4.5	94073.460	3.5
108.0159	25.01	-3.41	14593.820	3.0	107172.890	3.0	108.4599	26.02	-3.63	42896.900	3.0	135096.840	3.0
108.0204	24.02	-1.83	25848.200	1.0	118423.300	2.0	108.4599	25.01	-3.92	14325.860	4.0	106525.800	3.0
108.0248	27.02	-3.07	37021.000	3.5	129592.300	4.5	108.4651	26.02	-1.93	30725.800	1.0	122921.370	1.0
108.0284	9.02	-2.20	348817.600	1.5	441385.880	1.5	108.4667	17.00	-1.73	0.000	1.5	92194.190	1.5
108.0288	25.01	-1.97	14325.860	4.0	106893.800	5.0	108.4687	25.02	-2.51	43668.840	2.5	135861.320	1.5
108.0376	26.02	-2.23	50295.200	3.0	142855.590	4.0	108.4715	25.02	-1.50	43668.840	2.5	135858.960	2.5
108.0451	29.01	-5.90	21928.600	3.0	114482.500	2.0	108.4756	25.02	-2.02	43674.700	1.5	135861.320	1.5
108.0499	8.02	-4.57	300228.210	0.0	392778.000	1.0	108.4783	23.02	-2.14	92052.550	4.5	184236.900	4.5
108.0516	24.02	-2.36	17395.500	5.0	109943.900	5.0	108.4784	25.02	-1.81	43674.700	1.5	135858.960	2.5
108.0620	26.02	-7.45	862.630	1.5	93395.600	2.5	108.4803	26.02	-1.95	30716.200	2.0	122898.840	2.0
108.0696	26.01	-9.05	91710.430	3.5	184236.900	4.5	108.4915	26.02	-2.99	21462.200	4.0	113635.340	4.0
108.0772	23.02	-4.50	0.000	3.0	92516.650	4.0	108.4916	26.02	-2.39	30725.800	1.0	122898.840	2.0
108.0887	25.01	-8.75	501509.200	1.5	594019.000	2.5	108.4929	26.01	-2.22	0.000	4.5	92171.950	4.5
108.0967	8.03	5.53	501564.400	2.5	594074.000	3.5	108.4941	2.01	-4.45	329182.203	0.0	421353.114	0.0
108.0969	8.03	6.68	32499.530	4.5	125003.440	5.5	108.4989	26.01	-2.83	0.000	4.5	92166.810	5.5
108.1035	28.01	-4.51	348817.600	1.5	441315.800	5.0	108.5025	28.02	-4.52	23108.700	4.0	115272.500	5.0
108.1102	9.02	-2.55	144273.100	2.0	236766.900	3.0	108.5077	25.02	-2.89	43573.160	4.5	135732.500	4.5
108.1154	23.03	-2.87	29070.930	1.5	115592.250	1.5	108.5114	25.01	-3.92	14593.820	3.0	106750.000	2.0
108.1196	28.01	-4.13	23108.280	2.5	109237.400	1.0	108.5127	20.02	-2.00	272188.700	1.0	364343.850	1.0
108.1268	28.01	-2.83	300310.310	1.0	93328.600	1.5	108.5158	28.01	-1.95	32499.530	4.5	124652.000	4.5
108.1459	8.02	-4.84	16770.900	0.0	441167.400	5.0	108.5171	9.02	-4.09	349007.250	2.5	441158.600	1.5
108.1473	24.02	-3.37	862.630	1.5	441276.720	2.5	108.5171	17.00	-1.86	0.000	1.5	92151.380	5.5
108.1479	26.01	-7.24	348817.600	1.5	115565.980	2.5	108.5218	26.02	-3.49	137423.000	3.0	229570.360	2.0
108.1495	9.02	-3.87	348817.600	1.5	441158.600	1.5	108.5227	28.01	-2.38	14995.570	2.5	107142.210	1.5
108.1559	9.02	-2.86	501564.400	2.5	594019.000	2.5	108.5268	26.02	-3.56	21462.200	4.0	113605.370	3.0
108.1576	28.01	-3.01	17272.800	4.0	109721.400	3.0	108.5302	9.02	-1.47	349266.200	3.5	441406.460	3.5
108.1598	9.02	-3.82	119961.500	3.0	212399.300	3.0	108.5303	17.00	-1.78	0.000	1.5	92140.127	1.5
108.1612	8.03	-4.62	13550.390	3.5	105981.500	4.5	108.5329	24.02	-1.92	17395.500	5.0	109533.500	4.0
108.1682	24.02	-4.91	37316.500	2.5	129747.300	2.5	108.5389	28.02	-3.34	84604.800	1.0	176737.700	0.0
108.1809	25.03	-3.28	9330.040	3.5	92427.220	4.5	108.5423	25.02	-4.93	43602.500	3.5	135732.500	4.5
108.1887	28.01	-3.74	504095.700	2.5	101754.800	2.5	108.5441	28.01	-4.60	32523.540	3.5	124652.000	4.5
108.1890	27.02	-3.21	92052.550	4.5	184475.800	4.5	108.5446	26.02	-1.49	50184.900	2.0	142312.900	3.0
108.1932	26.01	-7.66	504095.700	2.5	596512.400	1.5	108.5450	26.02	-3.66	24940.900	4.0	117068.560	3.0
108.1961	28.01	-3.01	17528.800	6.0	109943.900	5.0	108.5460	26.02	-3.06	30716.200	2.0	122843.030	1.0
108.1979	23.02	-9.93	89417.500	3.5	181825.840	4.5	108.5503	28.01	-8.40	29070.930	1.5	121194.140	2.5
108.2056	8.03	-9.93	350302.300	2.0	442710.000	3.0	108.5508	26.02	-3.07	50412.300	2.0	142535.070	2.0
108.2074	24.02	-1.61	17167.400	1.0	109569.700	2.0	108.5529	7.01	-2.00	130.800	2.0	92251.800	1.0
108.2153	23.02	-4.31	349007.250	2.5	441406.460	3.5	108.5546	7.01	-7.79	130.800	2.0	92250.300	2.0
108.2161	8.02	-1.05	14781.190	2.0	107172.800	3.0	108.5552	25.02	-5.01	43573.160	4.5	135692.170	3.5
108.2224	24.02	-2.48	37316.500	2.5	129706.900	3.5	108.5560	28.01	-3.80	13550.390	3.5	105668.780	2.5
108.2260	9.02	-2.99	29070.930	1.5	121456.320	1.5	108.5573	26.02	-2.03	30725.800	1.0	122843.030	1.0
108.2349	25.01	-4.07	42896.900	3.0	135279.040	2.0	108.5576	26.01	-3.49	0.000	4.5	92116.980	4.5
108.2364	27.02	-2.46	14325.860	4.0	106707.300	4.0	108.5582	26.02	-4.95	134265.420	2.0	226381.910	3.0
108.2422	28.01	-2.94	25142.400	3.0	117521.910	4.0	108.5617	25.01	-2.05	14593.820	3.0	106707.300	4.0
108.2460	26.02	-4.21	349007.250	2.5	441385.880	1.5	108.5619	26.02	-2.40	30716.200	2.0	122829.550	3.0
108.2469	25.01	-2.83	43573.160	4.5	135944.080	4.5	108.5689	25.02	-3.42	43602.500	3.5	135709.900	2.5
108.2491	26.02	-3.11	187162.000	3.0	279507.000	4.0	108.5701	7.01	0.00	130.800	2.0	92237.200	3.0
108.2501	9.02	-2.51	42896.900	3.0	135239.740	4.0	108.5708	28.01	-2.19	24788.200	1.5	116893.980	2.5
108.2592	25.02	-1.05	43602.500	3.5	135944.080	4.5	108.5758	28.01	-1.52	23108.280	2.5	115209.850	3.5
108.2680	25.03	-2.95	348817.600	1.5	441167.400	5.0	108.5781	25.02	-1.40	29167.700	2.5	121267.320	2.5
108.2751	8.03	-7.73	120603.100	4.0	212966.500	5.0	108.5834	27.02	-2.74	15201.900	2.5	107297.000	1.5
108.2819	26.01	-7.44	504208.900	1.5	596566.200	5.5	108.5882	10.03	-4.91	524391.000	5.5	616482.000	5.5
108.2835	26.02	-4.64	977.030	5.5	93328.600	1.5	108.5884	28.01	-8.39	29070.930	1.5	121161.810	1.5
108.2839	9.02	-4.02	50184.900	2.0	142535.070	2.0	108.5897	26.02	-4.33	138103.120	4.0	230192.860	3.0
108.2857	8.03	0.01	348817.600	1.5	441167.400	5.0	108.5898	25.02	-2.92	43602.500	3.5	135692.170	3.5
108.2862	26.02	-3.65	504095.700	2.5	596444.000	2.5	108.5901	26.01	-5.21	0.000	4.5	92089.410	3.5
108.2896	26.04	-3.53	131710.790	5.0	224058.700	4.0	108.5934	28.01	-2.08	14995.570	2.5	107082.210	2.5
108.2921	26.02	-2.74	187162.000	3.0	279507.000	4.0	108.5935	26.02	-2.53	137423.000	3.0	229509.560	3.0
108.2936	25.02	-3.33	42896.900	3.0	135239.740	4.0	108.5937	26.02	-3.51	30857.800	3.0	122944.150	4.0
108.2943	9.02	-3.35	43602.500	3.5	135944.080	4.5	108.6019	27.02	-2.39	15428.200	1.5	107507.600	1.5
108.2988	8.02	-3.78	348817.600	1.5	441167.400	5.0	108.6026	26.02	-6.33	42896.900	3.0	134976.220	3.0
108.3093	27.02	-2.78	300440.850	2.0	392778.000	1.0	108.6026	28.01	-4.55	10663.890	1.5	102742.740	1.5
108.3096	26.02	-4.24	15201.900	2.5	107530.100	3.5	108.6059	28.01	-8.60	29070.930	1.5	121146.980	2.5
108.3172	26.02	-1.14	131710.790	5.0	224038.730	5.0	108.6114	29.01	-3.53	21928.600	3.0	114000.000	3.0
108.3219	26.01	-4.01	49148.000	0.0	141469.450	1.0	108.6130	24.02	-3.00	17167.400	1.0	109237.400	1.0
108.3249	28.01	-3.23	1872.600	4.5	94190.020	5.5	108.6155	26.02	-4.94	130756.840	6.0	222824.710	7.0
108.3259	26.04	-3.56	1872.600	4.5	280039.000	5.0	108.6201	26.04	-3.72	186736.000	2.0	278800.000	3.0
108.3276	25.02	-1.07	29167.700	2.5	121480.240	3.5	108.6222	25.03	-3.02	120603.100	4.0	212665.300	4.0
108.3296	26.01	-8.37	384.770	3.5	92695.620	2.5	108.6235	26.02	-4.52	118350.240	4.0	210411.320	5.0
108.3297	28.01	-2.15	13550.390	3.5	105861.190	2.5	108.6275	26.02	-5.81	30886.400	4.0	122944.150	4.0
108.3383	8.03	0.08	504208.900	1.5	596512.400	1.5	108.6374	23.03	-1.41	144273.100	2.0	236322.400	2.0
108.3426	26.02	-3.28	137209.730	4.0	229509.560	3.0	108.6455	26.01	-8.92	384.770	3.5	92427.220	4.5
108.3464	25.02	-2.73	43573.160	4.5	135869.760	3.5	108.						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
108.7325	25.01	-3.64	14781.190	2.0	106750.000	2.0
108.7339	28.01	-4.70	29593.460	.5	121561.060	.5
108.7371	26.02	-3.01	137544.600	2.0	229509.560	3.0
108.7378	17.01	-1.88	27877.800	0.0	119842.100	1.0
108.7459	26.02	-3.24	137573.200	0.0	229530.670	1.0
108.7557	25.02	-4.33	39174.400	5.5	131123.640	5.5
108.7563	28.01	-3.67	13550.390	3.5	105499.050	3.5
108.7581	25.02	-3.75	39176.500	6.5	131123.640	5.5
108.7587	26.02	-3.53	132104.940	2.0	224051.630	3.0
108.7590	23.02	-2.57	92052.550	4.5	183999.000	3.5
108.7603	26.01	-3.47	384.770	3.5	92330.100	2.5
108.7629	26.02	-3.97	30886.400	4.0	122829.550	3.0
108.7720	26.02	-3.94	21699.900	3.0	113635.340	4.0
108.7761	25.01	-2.62	14593.820	3.0	106525.800	3.0
108.7830	26.02	-4.99	25142.400	3.0	117068.560	3.0
108.7863	25.02	-2.14	29167.700	2.5	121091.080	1.5
108.7893	20.02	-1.08	279353.640	1.0	371274.480	2.0
108.7996	26.02	-2.24	30716.200	2.0	122628.340	2.0
108.8013	8.02	-1.78	300310.310	1.0	392221.000	2.0
108.8028	29.01	-5.88	22846.970	2.0	114756.400	1.0
108.8037	26.02	-2.84	24558.800	5.0	116467.410	4.0
108.8042	25.02	-2.59	43602.500	3.5	135510.700	2.5
108.8059	17.00	-1.68	0.000	1.5	91906.790	2.5
108.8075	26.02	-2.94	21699.900	3.0	113605.370	3.0
108.8109	26.02	-2.70	30725.800	1.0	122628.340	2.0
108.8132	26.02	-2.55	50412.300	2.0	142312.900	2.0
108.8163	26.01	-2.63	384.770	3.5	92282.760	3.5
108.8208	9.02	-2.86	391626.910	3.5	483521.140	3.5
108.8213	26.02	-4.61	137527.920	4.0	229421.730	4.0
108.8228	26.02	-1.24	49576.900	1.0	141469.450	1.0
108.8234	28.01	-1.37	23108.280	2.5	115000.250	3.5
108.8325	26.02	-3.38	21699.900	3.0	113584.200	2.0
108.8331	25.02	-1.70	29207.300	.5	121091.080	1.5
108.8342	28.02	-3.69	84604.800	1.0	176487.700	2.0
108.8343	26.02	-4.41	131445.030	2.0	223327.870	2.0
108.8393	29.01	-1.78	26264.400	2.0	118142.970	3.0
108.8429	23.03	-1.37	144273.100	2.0	236148.600	1.0
108.8478	24.02	-3.10	17850.000	2.0	109721.400	3.0
108.8509	27.02	-1.56	15428.200	1.5	107297.000	1.5
108.8579	28.01	-3.52	29593.460	.5	121456.320	1.5
108.8642	28.01	-2.90	25036.380	2.5	116893.980	2.5
108.8703	26.02	-5.31	30088.840	3.0	121941.290	4.0
108.8735	25.02	-1.40	29241.400	1.5	121091.080	1.5
108.8746	25.01	-4.31	14901.180	1.0	106750.000	2.0
108.8828	25.02	-1.91	43668.840	2.5	135510.700	2.5
108.8898	25.02	-2.57	43674.700	1.5	135510.700	2.5
108.8902	9.02	-3.50	389525.550	1.5	481361.170	1.5
108.8933	26.01	-6.79	862.630	1.5	92695.620	2.5
108.8937	26.02	-5.71	25142.400	3.0	116975.050	2.0
108.8958	26.02	-9.35	30088.840	3.0	121919.740	3.0
108.9062	26.02	-4.93	49576.900	1.0	141399.040	2.0
108.9117	9.02	-4.87	389525.550	1.5	481361.170	1.5
108.9242	29.01	-2.26	26264.400	2.0	118071.340	1.0
108.9251	28.02	-4.80	86464.200	2.0	178452.400	2.0
108.9253	10.03	-4.20	524476.400	1.5	616482.000	.5
108.9370	25.03	-4.38	120603.100	4.0	212399.300	3.0
108.9371	28.01	-3.17	23796.180	1.5	115592.250	1.5
108.9416	28.01	-2.75	29593.460	.5	121385.800	1.5
108.9424	26.02	-1.38	57221.700	4.0	149013.360	4.0
108.9470	28.01	-1.90	25036.380	2.5	116824.150	2.5
108.9477	26.01	-3.27	384.770	3.5	92171.950	4.5
108.9538	26.02	-3.86	187725.000	4.0	279507.000	4.0
108.9560	8.02	-1.16	300440.850	2.0	392221.000	2.0
108.9563	25.01	-3.60	14593.820	3.0	106373.700	2.0
108.9609	26.02	-2.44	132262.660	6.0	224038.730	5.0
108.9670	26.02	-1.34	50276.100	4.0	142047.000	4.0
108.9674	26.02	-3.66	30857.800	3.0	122628.340	2.0
108.9683	28.01	-1.87	23796.180	1.5	115565.980	2.5
108.9717	25.02	-1.55	29207.300	.5	120974.250	.5
108.9750	24.02	-1.70	20702.000	3.0	112466.200	3.0
108.9765	26.02	-4.83	131035.070	7.0	222797.970	8.0
108.9787	28.01	-3.03	23108.280	2.5	114869.350	1.5
108.9825	26.02	-3.02	24558.800	5.0	116316.630	5.0
108.9849	26.02	-3.37	25142.400	3.0	116898.220	2.0
108.9885	27.02	-1.73	15201.900	2.5	106954.700	2.5
108.9897	26.02	-1.53	50295.200	3.0	142047.000	4.0
108.9940	26.02	-3.94	21857.200	2.0	113605.370	3.0
108.9982	25.01	-2.18	14781.190	2.0	106525.800	3.0
108.9997	29.02	-4.47	62065.000	3.5	153808.400	4.5
109.0122	25.02	-2.07	29241.400	1.5	120974.250	.5
109.0130	26.01	-3.53	384.770	3.5	92116.980	4.5
109.0192	26.02	-2.77	21857.200	2.0	113584.200	2.0
109.0263	25.02	-3.96	39174.400	5.5	130895.390	4.5
109.0271	17.00	-1.88	882.360	.5	92602.700	.5
109.0278	24.02	-2.25	17850.000	2.0	109569.700	2.0
109.0291	26.01	-4.09	2430.080	3.5	94168.710	4.5
109.0381	23.02	-3.32	341.500	3.5	92052.550	4.5
109.0457	26.01	-4.04	384.770	3.5	92089.410	3.5
109.0536	25.01	-4.72	14781.190	2.0	106479.200	1.0
109.0554	24.02	-3.57	20702.000	3.0	112398.500	4.0
109.0558	27.02	-1.62	15811.400	.5	107507.600	.5
109.0618	26.01	-3.20	667.640	2.5	92358.800	1.5
109.0739	17.00	-1.07	0.000	1.5	91680.990	1.5
109.0873	25.01	-8.54	27583.300	4.0	119253.000	5.0
109.0873	25.01	-9.40	27583.300	4.0	119253.000	4.0
109.0879	24.02	-2.56	20702.000	3.0	112371.200	2.0
109.0932	25.01	-8.71	27588.230	3.0	119253.000	4.0
109.0932	25.01	-9.26	27588.230	3.0	119253.000	3.0
109.0941	25.01	-9.71	27589.030	2.0	119253.000	2.0
109.0941	25.01	-9.33	27589.030	2.0	119253.000	3.0
109.0959	26.01	-2.83	667.640	2.5	92330.100	2.5
109.0982	17.00	-1.37	0.000	1.5	91660.580	2.5
109.1012	26.02	-4.31	137763.700	5.0	229421.730	4.0
109.1082	26.02	-2.49	42896.900	3.0	134549.000	3.0
109.1179	24.02	-4.73	18510.000	3.0	101054.000	4.0
109.1182	25.02	-5.09	43602.500	3.5	135246.270	2.5
109.1186	26.01	-4.95	2430.080	3.5	94073.460	3.5
109.1237	28.01	-4.85	10115.660	2.5	101754.800	2.5
109.1250	26.04	-4.41	187162.000	3.0	278800.000	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
109.1250	26.04	-3.48	188401.000	5.0	280039.000	5.0
109.1280	29.01	-3.76	22846.970	2.0	114482.500	2.0
109.1341	26.02	-2.86	30716.200	2.0	122346.610	3.0
109.1406	28.01	-2.32	14995.570	2.5	106620.530	3.5
109.1423	9.02	-4.55	389737.630	.5	481361.170	1.5
109.1431	9.03	-4.21	469644.200	2.0	561267.000	1.0
109.1517	23.02	-1.75	15550.300	.5	107165.900	1.5
109.1523	26.01	-3.49	667.640	2.5	92282.760	3.5
109.1523	26.01	-2.72	1872.600	4.5	93487.710	3.5
109.1526	24.02	-1.82	20851.300	4.0	112466.200	3.0
109.1558	26.01	-4.91	1872.600	4.5	93484.750	4.5
109.1639	9.02	-4.29	389737.630	.5	481343.010	.5
109.1781	26.02	-3.21	30356.200	6.0	121949.620	5.0
109.1792	25.01	-2.58	14781.190	2.0	106373.700	2.0
109.1869	23.02	-1.01	15579.800	1.5	107165.900	1.5
109.1891	24.02	-2.13	17850.000	2.0	109434.200	2.0
109.1937	6.01	-1.27	110624.170	.5	202204.520	.5
109.1963	26.02	-3.53	34812.400	0.0	126390.570	1.0
109.1965	25.01	-4.12	14901.180	1.0	106479.200	1.0
109.1972	25.02	-4.37	43668.840	2.5	135246.270	2.5
109.2032	24.02	-3.98	18581.600	4.0	110154.000	4.0
109.2042	25.02	-5.04	43674.700	1.5	135246.270	2.5
109.2105	14.02	-2.69	153377.050	1.0	244943.310	2.0
109.2116	26.02	-3.68	138691.810	1.0	230297.150	2.0
109.2121	23.02	-3.76	145.500	2.5	91710.430	3.5
109.2129	17.00	-1.44	0.000	1.5	91564.300	.5
109.2201	26.01	-6.45	2430.080	3.5	93988.300	2.5
109.2221	24.01	-8.45	0.000	2.5	91556.540	1.5
109.2222	26.02	-3.59	138691.810	1.0	230248.260	1.0
109.2224	14.02	-3.39	153377.050	1.0	244933.360	1.0
109.2232	6.01	-1.58	110624.170	.5	202179.850	1.5
109.2279	14.02	-3.39	153377.050	1.0	244928.720	0.0
109.2314	26.01	-7.61	667.640	2.5	92216.420	1.5
109.2333	24.02	-1.84	20851.300	4.0	112398.500	4.0
109.2368	29.02	-4.06	62065.000	3.5	153609.200	3.5
109.2431	6.01	-1.58	110665.560	1.5	202204.520	.5
109.2437	17.00	-1.19	0.000	1.5	91538.500	1.5
109.2484	26.02	-3.02	24940.900	4.0	116475.440	3.0
109.2580	26.02	-4.15	24940.900	4.0	116467.410	4.0
109.2580	27.02	-1.20	15428.200	1.5	106954.700	2.5
109.2644	23.03	-2.67	146117.700	1.0	237638.800	2.0
109.2651	24.02	-6.17	17272.800	4.0	108793.300	3.0
109.2665	25.01	-4.53	14959.840	0.0	106479.200	1.0
109.2726	6.01	-1.88	110665.560	1.5	202179.850	1.5
109.2775	23.02	-1.34	15550.300	.5	107060.410	.5
109.2850	27.02	-4.24	37021.000	3.5	128524.900	2.5
109.2915	14.02	-1.78	142943.740	3.0	234442.180	2.0
109.2940	14.02	-2.53	142945.840	2.0	234442.180	2.0
109.2942	26.01	-2.76	862.630	1.5	92358.800	1.5
109.2963	14.02	-3.09	153377.050	1.0	244871.470	1.0
109.2968	26.02	-2.57	132564.710	5.0	224058.700	4.0
109.2969	14.02	-3.71	142948.250	1.0	234442.180	2.0
109.3030	26.02	-3.13	30857.800	3.0	122346.610	3.0
109.3035	27.02	-4.26	37316.500	2.5	128804.900	1.5
109.3068	27.02	-1.58	15811.400	.5	107297.000	1.5
109.3086	25.01	-3.57	14781.190	2.0	106265.300	1.0
109.3105	14.02	-2.53	142945.840	2.0	234428.400	1.0
109.3128	23.02	-1.42	15579.800	1.5	107060.410	.5
109.3133	14.02	-3.01	142948.250	1.0	234428.400	1.0
109.3166	24.02	-3.22	16770.900	0.0	108248.300	1.0
109.3187	28.01	-1.31	25036.380	2.5	116512.060	3.5
109.3200	3.01	-1.15	491361.000	0.0	582835.570	0.0
109.3207	26.02	-4.53	132564.710	5.0	224038.730	5.0
109.3225	25.01	-2.38	14901.180	1.0	106373.700	2.0
109.3270	23.02	-2.55	583.800	4.5	92052.550	4.5
109.3285	26.01	-3.37	862.630	1.5	92330.100	2.5
109.3293	14.02	-2.40	142948.250	1.0	234415.070	0.0
109.3332	26.02	-1.62	42896.900	3.0	134360.400	4.0
109.3372	26.02	-3.94	30886.400	4.0	122346.610	3.0
109.3395	9.02	-4.81	351236.350	.5	442694.580	1.5
109.3491	28.01	-4.25	8393.900	4.5	99844.130	3.5
109.3504	28.01	-2.86	29593.460	.5	121042.570	1.5
109.3518	25.02	-2.56	43668.840	2.5	135116.800	1.5
109.3588	25.02	-2.24	43674.700	1.5	135116.800	1.5
109.3592	14.02	-2.23	142945.840	2.0	234387.640	1.0
109.3621	14.02	-2.71	142948.250	1.0	234387.640	1.0
109.3777	24.01	-7.49	0.000	2.5	91426.310	2.5
109.3831	26.01	-4.41	667.640	2.5	92089.410	3.5
109.3876	9.02	-4.10	351330.800	1.5	442748.850	2.5
109.4015	26.02	-4.53	138103.120	4.0	229509.560	3.0
109.4045	24.02	-1.70	20994.600	5.0	112398.500	4.0
109.4098	26.02	-4.18	132659.170	4.0	224058.700	4.0
109.4182	26.02	-2.65	132659.170	4.0	224051.630	3.0
109.4212	27.02	-3.86	15201.900	2.5	106591.900	1.5
109.4243	24.02	-2.59	17850.000	2.0	109237.400	1.0
109.4273	9.02	-4.89	348817.600	1.5	440202.480	2.5
109.4310	26.01	-3.33	977.030	.5	92358.800	1.5
109.4383	26.02	-4.03	24940.900	4.0	116316.630	5.0
109.4401	29.01	-2.21	21928.600	3.0	113302.800	4.0
109.4406	28.01	-4.18	14995.570	2.5	106369.300	1.5
109.4409	24.02	-3.50	25725.800	3.0	117099.300	4.0
109.4422	25.02	-2.98	43668.840	2.5	135041.250	1.5
109.4464	23.02	-3.33	341.500	3.5	91710.430	3.5
109.4469	26.02	-4.00	42896.900	3.0	134265.420	2.0
109.4482	16.01	-1.90	24524.900	.5	115892.300	.5
109.4491	9.02	-1.07	348702.800	.5	440069.510	1.5
109.4492	25.02	-2.13	43674.700	1.5	135041.250	1.5
109.4522	25.01	-2.70	14901.180	1.0	106265.300	1.0
109.4543	24.02	-1.93	18581.600	4.0	109943.900	5.0
109.4645	26.01	-7.82	862.630	1.5	92216.420	1.5
109.4667	9.02	-7.73	349007.250	2.5	440359.260	3.5
109.4745	16.01	-1.99	24524.900	.5	115870.400	1.5
109.4769	17.00	-4.23	0.000	1.5	91343.500	2.5
109.4894	26.02	-4.13	25142.400	3.0	116475.440	3.0
109.4908	26.02	-4.18	131445.030	2.0	222776.890	1.0
109.4940	26.02	-4.47	131445.030	2.0	222774.220	2.0
109.4990	26.02	-3.39	25142.400	3.0	116467.410	4.0
109.5005	28.01	-1.69	23796.180	1.5	115120.000	2.5
109.5038	26.02	-4.28	131445.030	2.0	222766.040	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
109.5042	16.01	-1.45	24571.600	1.5	115892.300	.5	109.8260	7.00	-1.87	19233.177	1.5	110286.305	2.5
109.5099	9.02	-3.61	349266.200	3.5	440582.120	4.5	109.8425	9.02	-2.00	351330.800	1.5	442370.280	.5
109.5131	26.02	-3.76	131445.030	2.0	222758.280	2.0	109.8499	26.02	-3.47	30886.400	4.0	121919.740	3.0
109.5147	28.01	-2.47	23796.180	1.5	115108.090	2.5	109.8603	28.01	-3.47	8399.900	4.5	99418.610	3.5
109.5148	17.00	-1.07	882.360	.5	92194.190	1.5	109.8617	24.02	-2.18	18510.000	3.0	109533.500	4.0
109.5225	25.01	-2.66	14959.840	0.0	106265.300	1.0	109.8626	7.00	-1.88	19224.464	2.5	110247.288	3.5
109.5305	16.01	-3.67	24571.600	1.5	115870.400	1.5	109.8742	9.02	-4.96	376814.020	2.5	467827.160	1.5
109.5389	24.02	-3.38	17167.400	1.0	108459.200	2.0	109.8756	7.00	-2.45	19233.177	1.5	110245.183	.5
109.5439	28.01	-3.65	14995.570	2.5	106283.160	2.5	109.8868	24.02	-3.41	20851.300	4.0	111854.000	5.0
109.5443	27.02	-3.96	15201.900	2.5	106489.200	3.5	109.8887	28.02	-7.48	23108.700	4.0	114109.900	3.0
109.5476	26.02	-3.92	50184.900	2.0	141669.450	1.0	109.8939	28.01	-3.99	24788.200	1.5	115785.060	1.5
109.5490	9.02	-4.77	390077.800	2.5	481361.170	1.5	109.8941	27.02	-3.32	37021.000	3.5	128017.700	3.5
109.5511	26.02	-3.50	50184.900	2.0	141666.530	3.0	109.8954	7.00	-3.40	19224.464	2.5	110220.107	1.5
109.5520	9.02	-4.34	390080.300	1.5	481361.170	1.5	109.8962	23.02	-4.71	11966.300	3.5	102961.280	3.5
109.5543	28.01	-4.66	9330.040	3.5	100609.010	2.5	109.9047	7.00	-3.05	19224.464	2.5	110212.396	2.5
109.5566	26.02	-3.67	25142.400	3.0	116419.390	2.0	109.9059	7.00	-4.36	19233.177	1.5	110220.107	1.5
109.5610	26.02	-3.39	132785.360	4.0	224058.700	4.0	109.9061	26.02	-1.32	50412.300	2.0	141399.040	2.0
109.5645	24.02	-5.50	18451.000	2.0	109721.400	3.0	109.9066	24.01	-8.69	0.000	2.5	50986.310	3.5
109.5662	17.00	-1.56	882.360	.5	92151.380	.5	109.9104	24.02	-4.62	18451.000	2.0	109434.200	2.0
109.5695	26.02	-4.30	132785.360	4.0	224051.630	3.0	109.9152	7.00	-2.22	19233.177	1.5	110212.396	2.5
109.5738	9.02	-4.97	390080.300	1.5	481343.010	.5	109.9261	7.00	-4.71	19224.464	2.5	110194.654	1.5
109.5797	17.00	-2.48	882.360	.5	92140.127	1.5	109.9269	25.02	-4.36	43668.840	2.5	134638.390	1.5
109.5850	26.02	-4.58	132785.360	4.0	224038.730	5.0	109.9318	26.01	-1.31	2430.080	3.5	93395.600	2.5
109.5867	9.02	-1.52	348817.600	1.5	440069.510	1.5	109.9340	25.02	-5.10	43674.700	1.5	134638.390	1.5
109.5881	26.02	-4.38	132079.910	3.0	223330.710	3.0	109.9342	9.02	-1.79	351330.800	1.5	442294.310	1.5
109.5941	7.00	-2.50	19224.464	2.5	110470.244	2.5	109.9366	7.00	-3.04	19233.177	1.5	110194.654	1.5
109.5946	16.01	-3.53	24571.600	1.5	115817.000	2.5	109.9457	24.04	-4.51	228497.000	2.0	319451.000	3.0
109.5949	28.01	-3.78	29070.930	1.5	120316.020	.5	109.9471	28.01	-3.15	13550.390	3.5	104503.220	2.5
109.5996	24.02	-3.84	25725.800	3.0	116967.000	4.0	109.9482	24.02	-4.31	18581.600	4.0	109533.500	4.0
109.6006	9.02	-4.44	390120.770	.5	481361.170	1.5	109.9494	20.02	-2.43	279353.640	1.0	370304.540	2.0
109.6017	28.01	-1.58	25036.380	2.5	116275.810	3.5	109.9516	28.01	-3.88	24835.930	.5	115785.060	1.5
109.6018	26.01	-7.22	977.030	.5	92216.420	1.5	109.9523	17.00	-1.65	0.000	1.5	90948.530	1.5
109.6046	7.00	-2.09	19233.177	1.5	110470.244	2.5	109.9528	9.02	-2.54	351330.800	1.5	442278.930	2.5
109.6064	26.01	-4.20	2837.940	2.5	94073.460	3.5	109.9581	28.01	-1.88	23108.280	2.5	114052.400	3.5
109.6216	26.02	-4.55	132104.940	2.0	223327.870	2.0	109.9586	24.02	-4.91	17850.000	2.0	108793.300	3.0
109.6220	7.00	-2.81	19224.464	2.5	110447.032	1.5	109.9610	24.02	-2.67	20702.000	3.0	111643.300	4.0
109.6224	9.02	-4.18	390120.770	.5	481343.010	.5	109.9671	9.02	-2.95	349266.200	3.5	440202.480	2.5
109.6233	27.02	-4.69	55729.200	3.5	146950.700	2.5	109.9817	24.02	-2.86	18510.000	3.0	109434.200	2.0
109.6321	26.02	-2.55	50184.900	2.0	141399.040	2.0	109.9869	26.02	-6.77	30088.840	3.0	121008.780	3.0
109.6325	7.00	-2.84	19233.177	1.5	110447.032	1.5	109.9923	26.02	-3.03	24558.800	5.0	115474.250	6.0
109.6354	24.02	-2.95	18510.000	3.0	109721.400	3.0	110.0360	7.00	-1.70	19224.464	2.5	110103.834	1.5
109.6377	23.03	-1.41	146429.300	2.0	237638.800	2.0	110.0463	26.01	-4.30	3117.480	1.5	93988.300	2.5
109.6390	27.02	-4.63	37316.500	2.5	128524.900	2.5	110.0465	7.00	-2.98	19233.177	1.5	110103.834	1.5
109.6449	26.02	-4.98	30716.200	2.0	121919.740	3.0	110.0522	29.01	-3.00	26264.400	2.0	117130.360	2.0
109.6479	28.01	-8.51	29070.930	1.5	120271.970	2.5	110.0526	28.01	-3.52	14995.570	2.5	105861.190	2.5
109.6549	9.02	-1.44	349007.250	2.5	440202.480	2.5	110.0602	24.02	-4.45	20994.600	5.0	111854.000	5.0
109.6592	23.02	-6.08	11769.700	2.5	102961.280	3.5	110.0744	23.02	-4.59	12187.000	4.5	103034.650	4.5
109.6598	16.01	.06	14853.000	1.5	106044.160	.5	110.0806	28.01	-3.81	14995.570	2.5	105838.060	3.5
109.6606	26.02	-4.65	50276.100	4.0	141466.530	3.0	110.0892	23.02	-1.35	16330.500	1.5	107165.900	1.5
109.6621	11.02	-4.76	406562.000	1.5	497751.200	.5	110.0927	20.02	-1.91	272188.700	1.0	363021.270	2.0
109.6746	25.01	-6.88	0.000	3.0	91178.800	4.0	110.1123	9.02	-2.03	351330.800	1.5	442147.190	2.5
109.6747	7.00	-2.25	19224.464	2.5	110403.220	3.5	110.1244	26.02	-4.78	311991.580	7.0	222797.970	8.0
109.6769	7.00	-1.86	19224.464	2.5	110401.356	2.5	110.1245	24.02	-1.92	25725.800	3.0	116532.100	3.0
109.6803	26.02	-1.69	49576.900	1.0	140750.980	2.0	110.1272	28.01	-4.31	24788.200	1.5	115592.250	1.5
109.6810	17.00	-1.16	0.000	1.5	91173.510	1.5	110.1291	7.00	-2.02	19233.177	1.5	110035.720	.5
109.6836	26.02	-2.47	50295.200	3.0	141466.530	3.0	110.1338	17.00	-1.82	882.360	.5	91680.990	1.5
109.6840	7.00	-2.47	19224.464	2.5	110395.463	1.5	110.1419	24.02	-4.54	20851.300	4.0	111643.300	4.0
109.6874	7.00	-1.50	19233.177	1.5	110401.356	2.5	110.1428	23.02	-1.00	16374.700	2.5	107165.900	1.5
109.6928	27.02	-3.14	15428.200	1.5	106591.900	1.5	110.1487	24.02	-3.35	18451.000	2.0	109237.400	1.0
109.6945	7.00	-1.86	19233.177	1.5	110395.463	1.5	110.1519	23.03	-1.90	146855.100	3.0	237638.800	2.0
109.6970	26.02	-3.59	131445.030	2.0	222605.240	3.0	110.1558	27.02	-3.43	15811.400	.5	106591.900	1.5
109.7056	29.01	-2.33	22846.970	2.0	114000.000	3.0	110.1591	28.01	-2.28	24788.200	1.5	115565.980	2.5
109.7059	26.02	-4.22	30088.840	3.0	121241.670	4.0	110.1626	9.02	-1.87	351519.420	2.5	442294.310	1.5
109.7061	7.00	-3.88	19233.177	1.5	110385.795	.5	110.1634	23.02	-2.61	12187.000	4.5	102961.280	3.5
109.7069	28.01	-8.52	29070.930	1.5	120222.890	1.5	110.1701	27.02	-4.04	37316.500	2.5	128085.200	2.5
109.7088	26.01	-5.05	2837.940	2.5	93988.300	2.5	110.1727	27.02	-3.00	20194.900	1.5	110961.500	1.5
109.7215	24.02	-2.76	18581.600	4.0	109721.400	3.0	110.1768	27.02	-2.78	15201.900	2.5	105965.100	2.5
109.7237	7.00	-1.41	19224.464	2.5	110362.462	3.5	110.1813	9.02	-2.19	351519.420	2.5	442278.930	2.5
109.7303	28.01	-8.72	29070.930	1.5	120203.490	2.5	110.1829	29.01	-4.73	23998.220	1.0	114756.400	1.0
109.7355	28.01	-8.89	29070.930	1.5	120199.180	1.5	110.1852	28.01	-3.72	24835.930	.5	115592.250	1.5
109.7369	17.00	-4.11	0.000	1.5	91127.030	2.5	110.1915	24.02	-1.01	25781.000	2.0	116532.100	3.0
109.7374	23.02	-4.20	583.800	4.5	91710.430	3.5	110.1936	17.00	-4.97	0.000	1.5	90749.360	2.5
109.7470	24.02	-4.85	18451.000	2.0	109569.700	2.0	110.1944	28.01	-4.50	25036.380	2.5	115785.060	1.5
109.7471	28.01	-9.14	29070.930	1.5	120189.550	.5	110.1955	28.01	-2.40	13550.390	3.5	104298.230	4.5
109.7492	7.00	-3.75	19233.177	1.5	110350.014	.5	110.1977	16.01	-4.47	14853.000	1.5	105599.020	1.5
109.7492	9.02	-2.57	351519.420	2.5	442636.270	3.5	110.2008	26.02	-4.16	132079.910	3.0	222823.330	4.0
109.7522	25.02	-2.20	43674.700	1.5	134789.080	5.0	110.2082	26.02	-7.69	30088.840	3.0	120826.170	2.0
109.7543	26.02	-6.01	30356.200	6.0	121468.820	5.0	110.2158	26.02	-3.48	24558.800	5.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
110.3415	9.02	-1.29	351519.420	2.5	442147.190	2.5	110.8769	16.03	-4.87	134243.900	1.5	224434.000	1.5
110.3468	7.00	-3.89	19233.177	1.5	109856.520	1.5	110.8800	26.02	-3.20	49576.900	1.0	139764.480	2.0
110.3615	25.02	-3.10	43674.700	1.5	134286.000	1.5	110.8811	17.00	-4.77	882.360	5.0	91069.020	.5
110.3624	24.02	-1.75	25781.000	2.0	116391.600	2.0	110.8839	26.02	-4.23	57221.700	4.0	147406.160	5.0
110.3641	24.02	-2.92	17850.000	2.0	108459.200	2.0	110.8914	25.02	-3.89	43573.160	4.5	133751.500	3.5
110.3798	28.02	-6.32	23108.700	4.0	113705.000	4.0	110.8930	26.02	-2.22	50276.100	4.0	140453.100	3.0
110.3913	26.02	-3.79	35803.700	2.0	126390.570	1.0	110.8939	27.02	-2.65	20194.900	1.5	110371.200	2.5
110.3967	26.02	-7.19	30886.400	4.0	121468.820	5.0	110.8974	28.01	-1.17	25036.380	2.5	115209.850	3.5
110.4008	7.00	-3.04	19233.177	1.5	109812.233	.5	110.8981	26.01	-2.56	2430.080	3.5	92602.940	3.5
110.4037	26.02	-4.35	139680.470	3.0	230257.150	2.0	110.9000	3.01	-2.15	501816.000	0.0	591987.320	0.0
110.4081	28.01	-2.98	29593.460	.5	120166.520	1.5	110.9016	26.02	-3.84	24940.900	4.0	115110.920	4.0
110.4147	26.02	-4.19	139625.170	4.0	230192.860	3.0	110.9031	9.02	-3.10	376814.020	2.5	466982.860	2.5
110.4166	26.02	-1.28	50184.900	2.0	140750.980	2.0	110.9089	9.02	-2.34	376814.020	2.5	466978.150	1.5
110.4269	26.01	-1.83	2837.940	2.5	93395.600	2.5	110.9096	25.02	-1.27	43573.160	4.5	133736.640	5.5
110.4291	28.01	-4.09	25036.380	2.5	115592.250	1.5	110.9250	26.02	-3.52	30857.800	3.0	121008.780	3.0
110.4306	26.01	-2.25	1872.600	4.5	92427.220	4.5	110.9268	9.02	-1.47	351236.350	.5	441385.880	1.5
110.4332	27.02	-4.49	16977.600	4.5	107530.100	3.5	110.9275	25.02	-5.19	43602.500	3.5	133751.500	3.5
110.4336	26.02	-4.49	24558.800	5.0	115110.920	4.0	110.9355	26.02	-4.59	34812.400	0.0	124954.880	1.0
110.4411	26.02	-4.19	89084.790	3.0	179630.770	4.0	110.9366	27.02	-3.58	37316.500	2.5	127456.100	1.5
110.4443	24.02	-8.89	25848.200	1.0	116391.600	2.0	110.9486	23.02	-1.73	11513.800	.5	101645.610	.5
110.4467	26.02	-4.57	132785.360	4.0	223326.760	4.0	110.9516	8.02	-2.34	290956.620	1.0	381086.000	1.0
110.4522	27.02	-2.55	15428.200	1.5	105965.100	2.5	110.9602	26.02	-5.62	30886.400	4.0	121008.780	3.0
110.4545	30.02	-3.88	140071.000	1.0	230606.000	0.0	110.9742	29.01	-2.58	26264.400	2.0	116375.470	3.0
110.4598	28.01	-2.61	13550.390	3.5	104081.040	4.5	110.9755	26.02	-4.19	30716.200	2.0	120826.170	2.0
110.4611	28.01	-3.27	25036.380	2.5	115565.980	2.5	110.9771	23.02	-4.42	11966.300	3.5	102075.000	2.5
110.4653	28.01	-7.72	0.000	2.5	90526.180	2.5	110.9831	9.02	-2.16	376879.070	3.5	466982.860	2.5
110.4656	26.02	-3.82	132079.910	3.0	222605.820	4.0	110.9845	28.01	-5.44	13550.390	3.5	103653.030	3.5
110.4663	26.02	-4.07	132079.910	3.0	222605.240	3.0	110.9873	26.02	-5.17	30725.800	1.0	120826.170	2.0
110.4683	24.02	-2.56	20851.300	4.0	111375.000	3.0	110.9940	14.02	-2.21	52853.280	1.0	142948.250	1.0
110.4800	28.01	-7.52	9330.040	3.5	99844.130	3.5	110.9970	14.02	-2.26	52853.280	1.0	142948.250	2.0
110.4821	26.02	-4.74	139680.470	3.0	230192.860	3.0	110.9971	23.02	-2.16	16810.900	4.5	106903.350	5.5
110.4869	26.02	-4.52	50184.900	2.0	140693.360	3.0	111.0019	28.01	-4.07	9330.040	3.5	99418.101	3.5
110.4928	23.03	-1.67	147135.200	2.0	237638.800	2.0	111.0080	28.01	-2.71	25036.380	2.5	115120.000	2.5
110.4930	28.01	-2.66	14995.570	2.5	105499.050	3.5	111.0092	25.02	-2.94	43668.840	2.5	133751.500	3.5
110.4969	26.02	-4.15	132104.940	2.0	222605.240	3.0	111.0110	28.01	-5.14	24788.200	1.5	114869.350	1.5
110.5022	29.01	-6.00	21928.600	3.0	112424.500	2.0	111.0131	9.02	-1.54	351236.350	.5	441315.800	.5
110.5054	28.01	-5.44	10115.660	2.5	100609.010	2.5	111.0227	28.01	-3.07	25036.380	2.5	115108.090	2.5
110.5086	26.01	-1.85	2837.940	2.5	93328.600	1.5	111.0295	17.00	-1.18	882.360	.5	90948.530	1.5
110.5164	29.01	-2.98	23998.220	1.0	114482.500	2.0	111.0432	9.02	-1.69	351330.800	1.5	441385.880	1.5
110.5170	26.02	-4.16	139764.480	2.0	230248.260	1.0	111.0447	23.02	-1.03	11591.800	1.5	101645.610	.5
110.5178	23.02	-1.02	11591.800	1.5	102075.000	2.5	111.0530	26.02	-4.33	132785.360	4.0	222832.480	5.0
110.5393	29.02	-4.97	63143.600	2.5	153609.200	3.5	111.0581	27.02	-3.03	20918.500	.5	110961.500	1.5
110.5513	26.02	-2.13	50295.200	3.0	140750.980	2.0	111.0608	26.02	-3.15	50412.300	2.0	140453.100	3.0
110.5642	26.02	-6.38	40999.870	2.0	131445.030	2.0	111.0699	28.01	-4.10	24835.930	.5	114869.350	1.5
110.5653	28.01	-4.01	14995.570	2.5	105439.850	1.5	111.0715	28.02	-5.53	23108.700	4.0	113140.800	5.0
110.5848	26.02	-4.58	139764.480	2.0	230192.860	3.0	111.0730	23.03	-5.56	146117.700	1.0	236148.600	1.0
110.5938	9.01	-2.19	176493.930	2.0	266914.930	3.0	111.0743	27.02	-1.37	37021.000	3.5	127050.800	4.5
110.5957	9.01	-2.33	176493.930	2.0	266913.350	2.0	111.0811	23.02	-4.99	92052.550	4.5	182076.860	5.5
110.5969	9.01	-2.55	176493.930	2.0	266912.370	1.0	111.0912	23.02	-9.66	11769.700	2.5	101785.810	1.5
110.5984	26.02	-1.88	50276.100	4.0	140693.360	3.0	111.1010	24.02	-4.67	18451.000	2.0	108459.200	2.0
110.6020	26.02	-2.84	57221.700	4.0	147635.950	3.0	111.1017	26.02	-3.83	24940.900	4.0	114948.550	3.0
110.6068	10.02	-3.13	319444.900	1.0	409855.230	1.0	111.1096	27.02	-1.64	37316.500	2.5	127317.700	3.5
110.6070	26.01	-4.71	1872.600	4.5	92282.760	3.5	111.1104	25.02	-2.28	26851.100	4.5	116851.690	3.5
110.6097	11.05	-1.30	1040223.000	1.0	1130631.000	1.0	111.1146	26.01	-3.71	2430.080	3.5	92427.220	4.5
110.6097	11.05	-1.17	1040223.000	1.0	1130631.000	0.0	111.1187	25.02	-2.79	26857.800	2.5	116851.690	3.5
110.6097	11.05	-0.82	1040223.000	2.0	1130631.000	1.0	111.1212	25.02	-1.23	26859.900	3.5	116851.690	3.5
110.6097	11.05	-2.47	1040223.000	1.0	1130631.000	2.0	111.1296	9.02	-2.55	351330.800	1.5	441315.800	.5
110.6097	11.05	-1.30	1040223.000	2.0	1130631.000	2.0	111.1325	26.02	-3.85	77102.430	2.0	167085.120	3.0
110.6097	11.05	-5.55	1040223.000	3.0	1130631.000	2.0	111.1328	23.02	-4.00	92052.550	4.5	182034.970	4.5
110.6192	10.02	-4.67	319444.900	1.0	409845.080	2.0	111.1330	23.03	-2.96	147656.500	3.0	237638.800	2.0
110.6215	24.02	-6.15	17850.000	2.0	108248.300	1.0	111.1347	26.02	-4.03	30716.200	2.0	120697.100	1.0
110.6217	26.02	-1.23	50295.200	3.0	140693.360	3.0	111.1350	26.02	-4.54	132785.360	4.0	222766.040	3.0
110.6392	26.02	-5.69	30857.800	3.0	121241.670	4.0	111.1351	26.02	-4.27	132785.360	4.0	222765.970	4.0
110.6445	29.01	-2.45	26264.400	2.0	116643.960	3.0	111.1394	27.02	-2.94	37021.000	3.5	126998.100	4.5
110.6484	25.02	-2.86	43573.160	4.5	133949.540	4.5	111.1442	13.03	-2.83	680862.900	1.0	770836.100	1.0
110.6546	30.02	-2.14	190341.300	4.0	280712.600	3.0	111.1442	13.03	-2.83	680862.900	1.0	770836.100	1.0
110.6615	26.02	-2.89	139827.170	4.0	230192.860	3.0	111.1466	26.02	-4.60	30725.800	1.0	120697.100	1.0
110.6628	27.02	-4.01	20918.500	.5	111283.100	.5	111.1500	26.02	-3.88	25142.400	3.0	115110.920	4.0
110.6742	26.02	-5.77	30886.400	4.0	121241.670	4.0	111.1502	26.02	-3.99	30857.800	3.0	120826.170	2.0
110.6819	26.02	-3.39	24940.900	4.0	115289.910	5.0	111.1545	26.02	-4.53	132785.360	4.0	222750.230	3.0
110.6843	25.02	-3.78	43602.500	3.5	133949.540	4.5	111.1557	28.01	-5.17	25036.380	2.5	115000.250	3.5
110.6901	24.02	-5.77	18451.000	2.0	108793.300	3.0	111.1612	26.02	-4.68	132785.360	4.0	222744.790	5.0
110.6946	26.02	-2.08	50412.300	2.0	140750.980	2.0	111.1625	26.02	-4.37	139463.360	5.0	229421.730	4.0
110.6959	23.03	-8.89	146429.300	2.0	236766.900	3.0	111.1704	26.02	-4.93	132659.170	4.0	222611.160	5.0
110.7030	28.01	-2.96	24788.200	1.5	115120.000	2.5	111.1726	6.00	-3.99	16.400	1.0	89966.660	2.0
110.7089	26.02	-4.50	89334.510	2.0	179661.480	3.0	111.1739	24.02	-3.65	18510.000	3.0	108459.200	2.0
110.7119	23.02	-3.72	91710.430	3.5	182034.970	4.5	111.1741	26.02	-4.78	132785.360	4.0	222734.330	4.0
110.7125	24.04	-6.19											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
111.3132	9.02	-4.14	351330.800	1.5	441167.400	.5	111.7847	23.02	-2.43	0.000	1.5	89457.670	2.5
111.3160	25.02	-1.35	26857.800	2.5	116692.140	2.5	111.7851	25.02	-3.77	43602.500	3.5	133059.840	3.5
111.3161	26.02	-5.48	35803.700	2.0	125637.980	3.0	111.7868	24.02	-1.77	25725.800	3.0	115181.800	2.0
111.3174	14.02	-1.39	53115.010	2.0	142948.250	1.0	111.7891	26.02	-2.55	30725.800	1.0	120179.950	0.0
111.3177	28.01	-3.25	25036.380	2.5	114869.350	1.5	111.7892	12.02	-4.63	496012.100	0.0	585466.200	1.0
111.3186	25.02	-4.40	26859.900	3.5	116692.140	2.5	111.7905	16.05	-5.53	462653.000	3.5	552106.000	3.5
111.3204	14.02	-4.21	53115.010	2.0	142945.840	2.0	111.7905	16.05	1.02	462653.000	3.5	552106.000	4.5
111.3230	14.02	.54	53115.010	2.0	142943.740	3.0	111.7905	16.05	.90	462653.000	2.5	552106.000	3.5
111.3241	9.02	-3.55	351330.800	1.5	441158.600	1.5	111.7918	24.02	-5.91	20702.000	3.0	110154.000	4.0
111.3251	28.01	-9.33	29070.930	1.5	118897.940	2.5	111.7920	6.00	-3.44	0.000	0.0	89451.820	1.0
111.3252	24.02	-7.70	25725.800	3.0	115552.700	3.0	111.7989	15.04	-0.01	0.000	.5	89446.300	1.5
111.3256	28.02	-7.71	23108.700	4.0	112935.300	3.0	111.8008	26.01	-4.41	2837.940	2.5	92282.760	3.5
111.3266	26.02	-4.14	132785.360	4.0	222611.160	5.0	111.8044	26.02	-4.58	140750.980	2.0	230192.860	3.0
111.3332	26.02	-4.28	132785.360	4.0	222605.820	4.0	111.8125	6.00	-3.57	16.400	1.0	89451.820	1.0
111.3403	25.03	-2.05	119445.500	2.0	209260.200	2.0	111.8173	13.02	-2.11	115956.210	2.5	205387.770	1.5
111.3501	27.02	-2.16	15201.900	2.5	105008.700	3.5	111.8180	6.00	-4.02	16.400	1.0	89447.400	2.0
111.3509	26.02	-3.64	25142.400	3.0	114948.550	3.0	111.8202	13.02	-3.07	115958.500	1.5	205387.770	1.5
111.3509	28.01	-9.04	29070.930	1.5	118877.090	1.5	111.8208	25.01	-3.20	0.000	3.0	89428.800	3.0
111.3536	26.02	-4.41	140453.100	3.0	230257.150	2.0	111.8353	26.02	-3.10	79860.420	5.0	169277.600	4.0
111.3582	25.01	-8.40	0.000	3.0	89800.340	4.0	111.8353	13.02	-2.37	115958.500	1.5	205375.740	.5
111.3519	24.02	-4.72	18451.000	2.0	108248.300	1.0	111.8380	6.00	-3.43	16.400	1.0	89431.480	2.0
111.3743	27.02	-4.47	16977.600	4.5	106764.900	4.5	111.8463	6.00	-3.34	43.400	2.0	89451.820	1.0
111.3757	26.02	-4.28	134265.420	2.0	224051.630	3.0	111.8506	6.00	-3.77	43.400	2.0	89448.400	3.0
111.3937	24.02	-2.52	25781.000	2.0	115552.700	3.0	111.8514	26.02	-3.47	50276.100	4.0	139680.470	3.0
111.3959	23.02	-1.63	15550.300	.5	105320.180	1.5	111.8518	6.00	-4.33	43.400	2.0	89447.400	2.0
111.3969	26.02	-4.86	136612.780	4.0	226381.910	3.0	111.8558	24.02	-1.15	25781.000	2.0	115181.800	2.0
111.4020	26.01	-3.52	2837.940	2.5	92602.940	3.5	111.8583	25.02	-4.26	43573.160	4.5	132971.990	3.5
111.4034	27.02	-5.68	17766.200	3.5	107530.100	3.5	111.8624	26.02	-3.71	77102.430	2.0	166498.000	3.0
111.4054	26.02	-3.12	42896.900	3.0	132659.170	4.0	111.8681	25.02	-1.67	43668.840	2.5	133059.840	3.5
111.4116	9.02	-3.50	351519.420	2.5	441276.720	2.5	111.8717	6.00	-3.49	43.400	2.0	89431.480	2.0
111.4126	6.00	-3.46	16.400	1.0	89772.870	2.0	111.8753	26.02	-2.82	50295.200	3.0	139680.470	3.0
111.4214	8.02	-2.99	290956.620	1.0	380706.000	2.0	111.8770	25.01	-4.83	29869.110	2.0	119253.000	2.0
111.4307	26.01	-4.47	2430.080	3.5	92171.950	4.5	111.8770	25.01	-4.45	29869.110	2.0	119253.000	3.0
111.4326	23.02	-5.73	15579.800	1.5	105320.180	1.5	111.8770	25.01	-5.83	29869.110	2.0	119253.000	1.0
111.4333	26.02	-4.34	140453.100	3.0	230192.860	3.0	111.8838	26.01	-4.73	2837.940	2.5	92216.420	1.5
111.4386	6.00	-8.31	43.400	2.0	89778.900	3.0	111.8857	9.02	-6.69	376814.020	2.5	466190.970	3.5
111.4457	6.00	-3.19	43.400	2.0	89773.200	3.0	111.8920	28.01	-5.00	29070.930	1.5	118442.810	1.5
111.4461	6.00	-3.94	43.400	2.0	89772.870	2.0	111.8950	25.02	-3.47	43602.500	3.5	132971.990	3.5
111.4473	28.01	-3.95	10115.660	2.5	99844.130	3.5	111.9023	25.01	-5.20	29889.310	3.0	119253.000	4.0
111.4517	8.02	-1.17	313801.070	0.0	403526.000	1.0	111.9023	25.01	-6.78	29889.310	3.0	119253.000	2.0
111.4549	25.02	-5.53	26857.800	2.5	116580.170	1.5	111.9023	25.01	-5.75	29889.310	3.0	119253.000	3.0
111.4587	23.03	-1.35	146429.300	2.0	236148.600	1.0	111.9031	28.01	-1.70	32499.530	4.5	121862.570	3.5
111.4780	28.01	-9.08	29070.930	1.5	118774.760	.5	111.9144	25.03	-1.93	119961.500	3.0	209315.500	3.0
111.4787	25.02	-3.74	43573.160	4.5	133276.400	4.5	111.9167	26.02	-3.36	50412.300	2.0	139764.480	2.0
111.4792	23.02	-1.45	15579.800	1.5	105282.650	2.5	111.9206	26.02	-3.22	50276.100	4.0	139625.170	4.0
111.4802	15.04	-1.75	345398.400	1.5	435100.400	1.5	111.9332	28.01	-6.37	32523.540	3.5	121862.570	3.5
111.4848	26.02	-3.26	134360.400	4.0	224058.700	4.0	111.9397	25.01	-5.82	29919.220	2.0	119253.000	2.0
111.4863	15.04	-6.80	345403.300	2.5	435100.400	1.5	111.9397	25.01	-5.44	29919.220	2.0	119253.000	3.0
111.4990	26.01	-6.21	2430.080	3.5	92116.980	4.5	111.9397	25.01	-6.82	29919.220	2.0	119253.000	1.0
111.5097	26.02	-3.09	134360.400	4.0	224038.730	5.0	111.9400	24.02	-2.11	25848.200	1.0	115181.800	2.0
111.5131	16.01	-6.62	24524.900	.5	114200.450	1.5	111.9445	26.02	-1.28	50295.200	3.0	139625.170	4.0
111.5152	25.02	-1.46	43602.500	3.5	133276.400	4.5	111.9464	10.01	-3.82	219648.440	1.5	308976.870	.5
111.5186	27.02	-4.50	37316.500	2.5	126987.600	1.5	111.9668	23.02	-1.24	145.500	2.5	89457.670	2.5
111.5208	26.02	-3.39	57221.700	4.0	146891.040	3.0	111.9672	9.02	-1.92	376879.070	3.5	466190.970	3.5
111.5333	26.01	-6.19	2430.080	3.5	92089.410	3.5	111.9678	9.02	-5.57	376879.070	3.5	466190.970	4.5
111.5335	16.01	-1.23	24571.600	1.5	114230.750	2.5	111.9718	28.01	-3.55	29070.930	1.5	118379.110	2.5
111.5437	28.01	-3.97	14995.570	2.5	104646.520	3.5	111.9781	25.02	-4.01	43668.840	2.5	132971.990	3.5
111.5607	16.01	-1.31	24524.900	.5	114162.200	.5	111.9784	28.01	-3.44	10115.660	2.5	99418.610	3.5
111.5677	23.03	-1.46	147135.200	2.0	236766.900	3.0	111.9787	24.02	-4.56	20851.300	4.0	110154.000	4.0
111.5693	23.02	-6.31	16810.900	4.5	106441.310	4.5	111.9797	25.01	-6.31	29951.120	1.0	119253.000	4.0
111.5712	16.01	-7.76	24571.600	1.5	114200.450	1.5	111.9797	25.01	-6.01	29951.120	1.0	119253.000	2.0
111.5962	26.02	-7.43	30088.840	3.0	119697.640	2.0	111.9827	25.03	-2.90	119941.500	3.0	209260.200	2.0
111.5981	10.01	-3.48	219130.780	2.5	308738.030	1.5	111.9881	25.02	-7.64	43602.500	3.5	132897.740	2.5
111.6004	20.02	-2.90	272188.700	1.0	361794.080	1.0	111.9944	29.01	-2.98	21928.600	3.0	111218.800	4.0
111.6139	26.02	-4.64	139827.170	4.0	229421.730	4.0	112.0172	23.02	-2.62	145.500	2.5	89417.500	3.5
111.6189	16.01	-1.62	24571.600	1.5	114162.200	.5	112.0247	26.02	-2.48	30716.200	2.0	119982.260	1.0
111.6326	26.02	-2.87	50184.900	2.0	139764.480	2.0	112.0255	26.02	-3.48	76956.790	3.0	166222.200	4.0
111.6344	26.01	-3.52	3117.480	1.5	92695.620	2.5	112.0293	25.02	-3.82	43674.700	1.5	132937.060	.5
111.6351	29.01	-4.10	22846.970	2.0	112424.500	2.0	112.0367	26.02	-2.38	30725.800	1.0	119982.260	1.0
111.6375	27.02	-2.77	37316.500	2.5	126892.100	3.5	112.0430	26.01	-6.79	2837.940	2.5	92089.410	3.5
111.6508	25.01	-8.38	27583.300	4.0	117148.300	5.0	112.0500	11.02	-4.25	406200.900	2.5	495446.800	3.5
111.6523	26.02	-2.31	140693.360	3.0	230257.150	2.0	112.0557	26.01	-4.06	3117.480	1.5	92358.800	1.5
111.6533	8.00	-4.12	33792.583	0.0	123355.512	1.0	112.0657	26.02	-1.23	50276.100	4.0	139509.440	5.0
111.6557	28.01	-2.28	29070.930	1.5	118631.950	.5	112.0664	27.02	-4.47	37316.500	2.5	126549.300	3.5
111.6638	25.01	-9.24	27583.300	4.0	117137.800	4.0	112.0713	25.02	-3.59	43668.840	2.5	132897.740	2.5
111.6640	27.02	-6.02	37316.500	2.5	126870.900	2.5	112.0787	25.02	-2.06	43674.700	1.5	132897.740	2.5
111.6681	26.02	-1.95	50276.100	4.0	139827.170	4.0	112.0845	27.02	-2.18	37021.000	3.5	126239.400	4.5
111.6700	25.01	-8.55	27588.230	3.0	117137.800	4.0	112.0918	26.01	-4.57	3117.480			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
112.2131	23.02	-0.66	341.500	3.5	89457.670	2.5
112.2147	26.02	-3.43	49576.900	1.0	138691.810	1.0
112.2161	26.02	-3.34	134937.840	2.0	224051.630	3.0
112.2180	6.00	-3.34	43.400	2.0	89155.700	3.0
112.2203	23.03	-0.95	147656.500	3.0	236766.900	3.0
112.2251	11.02	-5.00	406562.000	1.5	495668.600	2.5
112.2260	6.00	-3.67	43.400	2.0	89149.350	1.0
112.2309	17.03	-2.52	13767.000	2.0	102869.000	3.0
112.2328	28.01	-7.76	0.000	2.5	89100.490	3.5
112.2328	6.00	-2.49	43.400	2.0	89143.900	3.0
112.2332	26.02	-3.29	35803.700	2.0	124903.920	2.0
112.2344	6.00	-4.43	43.400	2.0	89142.660	2.0
112.2348	26.01	-3.06	3117.480	1.5	92216.420	1.5
112.2378	25.02	-1.16	32383.700	2.5	121480.240	3.5
112.2378	25.01	-6.50	0.000	3.0	89096.560	4.0
112.2420	10.01	-4.89	249695.530	1.5	338788.760	5
112.2428	24.02	-0.86	20851.300	4.0	109943.900	5.0
112.2447	6.00	-2.53	0.000	0.0	89091.100	1.0
112.2455	14.02	-1.23	165765.000	2.0	254855.420	3.0
112.2466	10.01	-3.98	219648.440	1.5	308738.030	1.5
112.2485	14.03	-0.22	71287.540	5	160375.600	1.5
112.2518	6.00	-3.46	0.000	0.0	89085.410	1.0
112.2526	26.02	-0.30	0.000	4.0	89084.790	3.0
112.2555	26.02	-3.23	134976.220	3.0	224058.700	4.0
112.2600	25.01	-3.45	0.000	3.0	89078.900	2.0
112.2630	26.02	-3.34	24558.800	5.0	113635.340	4.0
112.2637	23.02	-1.16	341.500	3.5	89417.500	3.5
112.2653	6.00	-2.84	16.400	1.0	89091.100	1.0
112.2725	6.00	-3.58	16.400	1.0	89085.410	1.0
112.2772	27.02	-3.92	37316.500	2.5	126381.800	1.5
112.2773	6.00	-3.28	16.400	1.0	89081.620	0.0
112.2794	6.00	-2.77	16.400	1.0	89079.900	2.0
112.2960	26.02	-5.38	35803.700	2.0	124854.040	3.0
112.2990	23.02	-0.59	145.500	2.5	89193.470	1.5
112.2994	6.00	-4.56	43.400	2.0	89091.100	1.0
112.3010	10.01	-2.98	219130.780	2.5	308177.220	1.5
112.3065	6.00	-3.36	43.400	2.0	89085.410	1.0
112.3107	6.00	-2.97	43.400	2.0	89082.100	3.0
112.3110	28.01	-4.10	29593.460	5	118631.950	5
112.3119	6.00	-4.78	16.400	1.0	89054.160	2.0
112.3135	6.00	-5.94	43.400	2.0	89079.900	2.0
112.3222	29.01	-3.15	22846.970	2.0	111876.600	3.0
112.3267	11.02	-4.37	440472.000	2.5	529498.000	1.5
112.3281	26.02	-4.38	137423.000	3.0	226447.880	2.0
112.3290	9.02	-3.66	355981.900	1.5	445006.130	2.5
112.3343	17.03	-3.15	13767.000	2.0	102787.000	2.0
112.3351	24.02	-5.13	20702.000	3.0	109721.400	3.0
112.3353	28.01	-8.01	1506.940	1.5	90526.180	2.5
112.3398	28.01	-2.13	25036.380	2.5	114052.040	3.5
112.3426	23.03	-4.22	147135.200	2.0	236148.600	1.0
112.3460	6.00	-4.22	43.400	2.0	89054.160	2.0
112.3515	25.01	-8.68	14593.820	3.0	103600.170	2.0
112.3518	10.01	-3.14	219130.780	2.5	308136.890	1.5
112.3524	23.02	-0.66	0.000	1.5	89005.640	4.5
112.3612	27.02	-5.88	17766.200	3.5	106764.900	4.5
112.3621	24.04	-0.86	231408.000	4.0	320406.000	5.0
112.3719	25.01	-8.73	9472.970	2.0	98463.160	3.0
112.3726	23.02	-1.75	16330.500	1.5	105320.180	1.5
112.3730	25.01	-9.11	9472.970	2.0	98462.340	2.0
112.3785	17.03	-0.02	13767.000	2.0	102752.000	1.0
112.3830	26.02	-2.20	30716.200	2.0	119697.640	2.0
112.3909	9.02	-2.69	355981.900	1.5	444957.110	1.5
112.3951	26.02	-3.97	30725.800	1.0	119697.640	2.0
112.3953	27.02	-2.89	37021.000	3.5	125992.700	2.5
112.3970	26.02	-4.39	134360.400	4.0	223330.710	3.0
112.4020	26.02	-3.99	134360.400	4.0	223326.760	4.0
112.4026	30.02	-1.35	190341.300	4.0	279307.200	4.0
112.4033	20.02	-1.30	272188.700	1.0	361154.070	2.0
112.4076	26.02	-4.81	137544.600	2.0	226506.540	1.0
112.4077	26.02	-4.15	135096.840	3.0	224058.700	4.0
112.4100	25.02	-1.32	23207.300	3.5	121267.320	2.5
112.4114	26.02	-3.86	137423.000	3.0	226381.910	3.0
112.4167	26.02	-3.72	135096.840	3.0	224051.630	3.0
112.4200	23.02	-4.95	16330.500	1.5	105282.650	2.5
112.4236	24.02	-2.85	20994.600	5.0	109943.900	5.0
112.4238	10.01	-4.88	249839.630	5	338788.760	5
112.4269	28.01	-3.16	9330.040	3.5	98276.700	4.5
112.4284	23.02	-2.18	16374.700	2.5	105320.180	1.5
112.4285	26.02	-4.20	137561.100	1.0	226506.540	1.0
112.4298	23.02	-3.00	0.000	1.5	88944.380	2.5
112.4400	16.01	-1.09	24524.900	5	113461.220	1.5
112.4412	26.02	-2.92	79844.740	6.0	168780.100	5.0
112.4418	24.02	-1.82	25781.000	2.0	114715.900	1.0
112.4438	26.02	-4.36	137573.200	0.0	226506.540	1.0
112.4610	26.02	-4.69	79860.420	5.0	168780.100	5.0
112.4700	11.02	-4.11	440552.400	3.5	529465.000	2.5
112.4759	23.02	-1.60	16374.700	2.5	105282.650	2.5
112.4818	26.02	-3.94	137544.600	2.0	226447.880	2.0
112.4881	26.02	-0.59	436.200	3.0	89336.510	2.0
112.4935	15.01	-2.90	0.000	0.0	88894.000	1.0
112.4991	16.01	-0.38	24571.600	1.5	113461.220	1.5
112.5027	26.02	-4.25	137561.100	1.0	226447.880	2.0
112.5067	25.02	-0.96	32383.700	2.5	121267.320	2.5
112.5079	25.02	-1.14	32384.700	1.5	121267.320	2.5
112.5150	26.02	-4.83	140695.360	3.0	229570.360	2.0
112.5218	9.02	-3.77	351330.800	1.5	440202.480	2.5
112.5238	24.02	-3.91	20851.300	4.0	109721.400	3.0
112.5268	24.02	-1.32	25848.200	1.0	114715.900	1.0
112.5268	24.02	-5.78	20702.000	3.0	109569.700	2.0
112.5390	26.02	-2.31	141399.040	2.0	230257.150	2.0
112.5401	13.01	-2.08	59849.700	1.0	148705.900	0.0
112.5501	28.01	-3.57	29593.460	5	118442.810	1.5
112.5558	26.02	-1.88	113584.200	2.0	202429.040	1.0
112.5563	25.03	-1.77	120603.100	4.0	209447.500	4.0
112.5621	26.02	-2.39	30857.800	3.0	119697.640	2.0
112.5621	9.02	-3.47	351519.420	2.5	440359.260	3.5
112.5653	26.02	-4.39	137544.600	2.0	226381.910	3.0
112.5699	23.02	-0.11	583.800	4.5	89417.500	3.5
112.5706	9.02	-4.58	351236.350	5	440069.510	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
112.5727	24.02	-0.95	20702.000	3.0	109533.500	4.0
112.5885	25.01	-7.42	14781.190	2.0	103600.170	2.0
112.5886	26.02	-3.99	135239.740	4.0	224058.700	4.0
112.5975	26.02	-4.71	135239.740	4.0	224051.630	3.0
112.5985	14.01	-3.49	43107.970	2.5	131919.100	3.5
112.6103	28.01	-2.86	29070.930	1.5	117872.780	2.5
112.6106	28.01	-4.09	32523.540	3.5	121325.090	2.5
112.6139	26.02	-4.19	135239.740	4.0	224038.730	5.0
112.6140	23.02	-1.39	145.500	2.5	88944.380	2.5
112.6205	26.02	-3.16	141399.040	2.0	230192.860	3.0
112.6246	10.01	-3.58	219947.460	5	308738.030	1.5
112.6255	28.02	-6.78	23108.700	4.0	111898.500	4.0
112.6282	26.02	-3.11	141469.450	1.0	230257.150	2.0
112.6384	26.02	-4.89	140750.980	2.0	229530.670	1.0
112.6395	26.02	-2.57	141469.450	1.0	230248.260	1.0
112.6399	26.02	-4.71	134549.380	1.0	223327.870	2.0
112.6474	26.02	-4.76	135279.040	2.0	224051.630	3.0
112.6532	26.02	-4.99	70725.010	3.0	159493.000	3.0
112.6580	26.02	-4.25	70728.750	4.0	159493.000	3.0
112.6582	10.01	-3.84	219130.780	2.5	307894.840	2.5
112.6729	26.02	-1.02	738.900	2.0	89491.390	1.0
112.6828	14.01	-4.43	42932.680	1.5	131677.400	2.5
112.6881	26.02	-7.45	34812.400	0.0	123552.950	1.0
112.6904	9.02	-4.57	351330.800	1.5	440069.510	1.5
112.6937	26.02	-3.38	24940.900	4.0	113677.010	5.0
112.6987	24.02	-4.51	20702.000	3.0	109434.200	2.0
112.7025	15.01	-2.79	164.800	1.0	88894.000	1.0
112.7061	26.02	-2.14	141466.530	3.0	230192.860	3.0
112.7103	27.02	-5.53	17766.200	3.5	106489.200	3.5
112.7112	26.02	-2.97	135316.420	5.0	224038.730	5.0
112.7238	25.03	-2.87	120603.100	4.0	209315.500	3.0
112.7302	25.02	-1.27	32383.700	2.5	121091.080	1.5
112.7315	25.02	-1.32	32384.700	1.5	121091.080	1.5
112.7409	25.01	-8.70	14901.180	1.0	103600.170	2.0
112.7459	25.02	-3.91	43602.500	3.5	132297.550	2.5
112.7466	26.02	-4.88	24940.900	4.0	113635.340	4.0
112.7485	28.01	-2.47	29070.930	1.5	117763.910	1.5
112.7560	25.02	-1.34	32404.000	5	121091.080	1.5
112.7611	9.02	-4.40	351519.420	2.5	440202.480	2.5
112.7622	24.02	-4.01	20851.300	4.0	109533.500	4.0
112.7698	27.02	-5.78	37316.500	2.5	125992.700	2.5
112.7703	15.01	-3.58	21576.200	0.0	110252.000	1.0
112.7707	28.01	-5.06	23108.280	2.5	111783.790	3.5
112.7784	27.02	-3.94	37021.000	3.5	125690.500	3.5
112.7829	23.03	-0.07	147656.500	3.0	236322.400	2.0
112.7847	28.02	-3.21	24940.900	4.0	113605.370	3.0
112.7937	28.01	-6.60	14995.570	2.5	103653.030	3.5
112.8010	15.04	-0.32	0.000	5	88651.700	5
112.8050	26.02	-0.89	436.200	3.0	89084.790	3.0
112.8075	6.00	-3.15	0.000	0.0	88646.600	1.0
112.8109	10.01	-4.25	219130.780	2.5	307774.710	1.5
112.8171	6.00	-3.23	0.000	0.0	88639.020	1.0
112.8231	9.02	-2.31	356371.820	2.5	445006.130	2.5
112.8251	26.02	-5.59	30088.840	3.0	118721.600	2.0
112.8252	6.00	-3.35	16.400	1.0	88649.100	0.0
112.8284	6.00	-5.58	16.400	1.0	88666.600	1.0
112.8298	24.02	-1.18	25725.800	3.0	114354.900	4.0
112.8303	25.02	-3.28	43668.840	2.5	132297.550	2.5
112.8325	14.03	-0.48	71748.640	1.5	160375.600	1.5
112.8340	14.03	-0.47	71748.640	1.5	160374.410	2.5
112.8377	25.02	-4.24	43674.700	1.5	132297.550	2.5
112.8380	6.00	-2.62	16.400	1.0	88639.020	1.0
112.8408	6.00	-3.43	16.400	1.0	88636.800	2.0
112.8477	6.00	-4.10	0.000	0.0	88615.010	1.0
112.8627	6.00	-3.94	43.400	2.0	88646.600	1.0
112.8631	23.02	-0.48	341.500	3.5	88944.380	2.5
112.8686	6.00	-4.22	16.400	1.0	88615.010	1.0
112.8701	26.02	-3.03	30088.840	3.0	118686.250	4.0
112.8724	26.02	-0.80	738.900	2.0	89334.510	2.0
112.8724	6.00	-3.14	43.400	2.0	88639.020	1.0
112.8752	6.00	-2.44	43.400	2.0	88636.800	2.0
112.8781	28.01	-2.01	29070.930	1.5	117662.110	1.5
112.8801	25.02	-1.44	32384.700	1.5	120974.250	5
112.8817	6.00	-2.56	16.400	1.0	88604.750	2.0
112.8856	9.02	-3.38	356371.820	2.5	444957.110	1.5
112.8897	28.01	-7.85	0.000	2.5	88582.010	1.5
112.8903	6.00	-2.92	43.400	2.0	88625.000	3.0
112.9026	26.02	-2.54	113584.200	2.0	202156.130	2.0
112.9030	6.00	-4.01	43.400	2.0	88615.010	1.0
112.9047	25.02	-1.46	32404.000	5	120974.250	5
112.9058	14.01	-4.79	43107.970	2.5	131677.400	2.5
112.9074	25.01	-4.472	30684.810	1.0	119253.000	1.0
112.9074	25.01	-4.472	30684.810	1.0	119253.000	1.0
112.9078	6.00	-3.06	16.400	1.0	88584.260	2.0
112.9135	6.00	-2.10	43.400	2.0	88606.800	3.0
112.9161	6.00	-3.56	43.400	2.0	88604.750	2.0
112.9190	23.02	-2.19	0.000	1.5	88559.080	1.5
112.9191	26.02	-0.91	932.400	1.0	89491.390	1.0
112.9196	6.00	-2.31	0.000	0.0	88558.600	1.0
112.9296	26.02	-1.80	113605.370	3.0	202156.130	2.0
112.9317	6.00	-3.15	0.000	0.0	88549.060	1.0
112.9329	26.02	-0.33	42896.900	3.0	131445.030	2.0
112.9405	6.00	-2.64	16.400	1.0	88558.600	1.0
112.9422	6.00	-2.58	43.400	2.0	88584.260	2.0
112.9447	24.02	-5.01	20994.600	5.0	109533.500	4.0
112.9527	6.00	-3.27	16.400	1.0	88549.060	1.0
112.9576	10.01	-5.00	219648.440	1.5	308177.220	1.5
112.9594	6.00	-3.10	16.400	1.0	88543.760	0.0
112.9597	28.01	-3.78	32523.540	3.5	121050.660	2.5
112.9624	6.00	-2.44	16.400	1.0	88541.400	2.0
112.9749	6.00	-0.49	43.400	2.0	88558.600	1.0
112.9855	26.02	-1.83	50184.900	2.0	138691.810	1.0
112.9871	6.00	-3.05	43.400	2.0	88549.060	1.0
112.9889	26.02	-2.87	135554.410	4.0	224058.700	4.0
112.9924	6.00	-2.63	43.400	2.0	88544.900	3.0
112.9969	6.00	-0.73	43.400	2.0	88541.400	2.0
113.0034	26.02	-0.47	25142.400	3.0	113635.340	4.0
113.0046	29.01	-5.51	26264.400	2.0	14756.400	1.0
113.0143	28.02	-0.79	53703.700	5.0	142188.100	6.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
113.0144	26.02	-2.95	135554.410	4.0	224038.730	5.0	113.4936	26.02	-3.90	135217.170	1.0	223327.870	2.0
113.0171	6.00	-4.40	16.400	1.0	88498.620	2.0	113.4946	10.01	-2.22	219130.780	2.0	307240.700	3.5
113.0300	26.02	-4.13	134360.400	4.0	222832.480	5.0	113.4958	26.02	-6.41	34812.400	0.5	122921.370	1.0
113.0327	26.02	-1.91	214357.000	1.0	302827.000	2.0	113.4974	9.02	-1.93	376814.020	2.5	464921.740	3.5
113.0402	26.02	-1.26	1027.300	0.0	89491.390	1.0	113.4981	7.00	.05	7.000	1.5	88107.230	2.5
113.0416	26.02	-3.74	25142.400	3.0	113605.370	3.0	113.5009	10.03	-4.16	524676.000	1.5	612781.000	1.5
113.0516	6.00	-3.92	43.400	2.0	88498.620	2.0	113.5186	24.02	-6.17	20702.000	3.0	108793.300	3.0
113.0534	27.02	-4.45	15201.900	2.5	103655.700	1.5	113.5190	26.02	-3.25	135239.740	4.0	223300.710	3.0
113.0631	26.02	-3.84	113584.200	2.0	202030.380	3.0	113.5241	26.02	-2.72	135239.740	4.0	223326.760	4.0
113.0687	26.02	-3.07	25142.400	3.0	113584.200	2.0	113.5306	25.02	-4.79	130895.390	4.5	218977.340	3.5
113.0777	29.01	-4.19	21928.600	3.0	110363.400	2.0	113.5331	17.00	-4.46	0.000	1.5	88080.042	2.5
113.0886	29.01	-3.61	23998.220	1.0	112424.500	2.0	113.5389	10.01	-4.18	219947.460	.5	308022.990	.5
113.0902	26.02	-2.49	113605.370	3.0	202030.380	3.0	113.5400	26.02	-8.24	30088.840	3.0	118163.560	2.0
113.0902	15.01	-3.11	469.000	2.0	88894.000	1.0	113.5431	25.02	-4.42	131123.640	5.5	219195.950	4.5
113.0982	26.02	-4.61	141002.990	4.0	229421.730	4.0	113.5478	23.01	-2.75	29593.460	.5	117662.110	1.5
113.1048	23.02	-4.96	145.500	2.5	88559.080	1.5	113.5485	26.02	-4.76	135990.620	4.0	224058.700	4.0
113.1054	26.02	-3.70	49148.000	0.0	137561.100	1.0	113.5576	26.02	-4.81	135990.620	4.0	224051.630	3.0
113.1063	16.01	-4.78	24524.900	.5	112937.330	.5	113.5584	9.02	-2.36	376879.070	3.5	464939.500	2.5
113.1150	26.02	-4.00	134360.400	4.0	222765.970	4.0	113.5596	10.01	-3.81	219947.460	.5	308006.930	.5
113.1175	28.01	-4.76	32499.530	4.5	120903.200	3.5	113.5630	26.02	-4.14	134549.000	3.0	22605.820	4.0
113.1183	24.04	-4.47	231408.000	4.0	319811.000	4.0	113.5638	26.02	-4.15	134549.000	3.0	22605.240	3.0
113.1195	26.02	-1.39	932.400	1.0	89334.510	2.0	113.5685	27.02	-4.53	37316.500	2.5	125369.100	2.5
113.1198	26.01	-5.25	7955.240	3.5	96357.070	3.5	113.5697	26.02	-4.13	135279.040	2.0	223330.710	3.0
113.1214	27.02	-3.35	37021.000	3.5	125421.600	4.5	113.5719	26.02	-3.02	136008.740	3.0	224058.700	4.0
113.1246	11.02	-4.73	406200.900	2.5	494599.000	2.5	113.5733	26.02	-3.53	135279.040	2.0	223327.870	2.0
113.1251	23.03	.10	148369.200	4.0	236766.900	3.0	113.5743	26.02	-3.31	135990.620	4.0	224038.730	5.0
113.1285	26.02	-1.70	113635.340	4.0	202030.380	3.0	113.5808	26.02	-4.12	141466.530	3.0	229509.560	3.0
113.1313	26.02	-3.60	134937.840	2.0	223330.710	3.0	113.5809	26.04	-4.74	231408.000	4.0	319451.000	3.0
113.1327	27.02	-3.60	15201.900	2.5	103593.700	2.5	113.5810	26.02	-3.97	136008.740	3.0	224051.630	3.0
113.1349	26.02	-2.98	134937.840	2.0	223327.870	2.0	113.5813	9.02	-4.96	376879.070	3.5	464921.740	3.5
113.1350	10.03	-3.92	524391.000	.5	612781.000	1.5	113.5914	23.02	-1.88	11769.700	2.5	99804.570	2.5
113.1352	26.02	-4.49	134360.400	4.0	222750.230	3.0	113.5940	25.02	-3.21	43668.840	2.5	131701.690	1.5
113.1422	26.02	-4.27	134360.400	4.0	222744.790	5.0	113.5962	27.02	-4.97	16977.600	4.5	105008.700	3.5
113.1482	28.01	-4.69	32523.540	3.5	120903.200	3.5	113.5968	26.02	-6.86	34812.400	0.0	122843.030	1.0
113.1555	26.02	-4.34	134360.400	4.0	222734.330	4.0	113.6015	25.02	-3.30	43674.700	1.5	131701.690	1.5
113.1555	27.02	-2.31	37316.500	2.5	125690.500	3.5	113.6125	20.02	-4.02	272188.700	1.0	360207.160	2.0
113.1660	16.01	-1.19	24571.600	1.5	112937.330	.5	113.6205	28.01	-4.45	23108.280	2.5	111120.540	1.5
113.1753	10.01	-3.09	219648.440	1.5	308006.930	.5	113.6230	26.02	-3.51	135316.420	5.0	223326.760	4.0
113.1770	26.02	-3.71	73727.640	2.0	162084.860	2.0	113.6294	26.02	-3.98	30716.200	2.0	118721.600	2.0
113.1804	26.02	-3.09	134976.220	3.0	223330.710	3.0	113.6311	23.03	-2.51	146117.700	1.0	234121.800	0.0
113.1810	26.02	-5.48	30088.840	3.0	118442.920	3.0	113.6325	26.02	-2.35	50184.900	2.0	138187.930	3.0
113.1822	26.02	-3.40	135705.570	3.0	224058.700	4.0	113.6349	26.02	-3.84	70728.750	4.0	158729.890	3.0
113.1841	26.02	-3.88	134976.220	3.0	223327.870	2.0	113.6379	26.02	-3.59	30356.900	6.0	118355.010	6.0
113.1855	26.02	-3.52	134976.220	3.0	223326.760	4.0	113.6411	26.02	-3.81	49576.900	1.0	137573.200	0.0
113.1886	27.02	-3.85	37021.000	3.5	125369.100	2.5	113.6418	26.02	-4.93	30725.800	1.0	118721.600	2.0
113.1912	26.02	-3.89	135705.570	3.0	224051.630	3.0	113.6432	23.02	-5.04	11513.800	.5	99508.500	1.5
113.1915	26.02	-1.74	738.900	2.0	89084.790	3.0	113.6455	26.02	-2.60	135316.420	5.0	223309.370	5.0
113.2000	3.01	.04	494273.000	0.0	582612.223	0.0	113.6467	10.03	-4.08	524676.000	1.5	612668.000	.5
113.2036	8.02	-2.03	290956.620	1.0	379293.000	2.0	113.6475	27.02	-4.21	37021.000	3.5	125012.400	4.5
113.2190	26.01	-6.64	7955.240	3.5	96279.650	2.5	113.6539	23.02	-1.96	341.500	3.5	88327.960	3.5
113.2321	26.02	-3.82	113605.370	3.0	201919.530	4.0	113.6568	26.02	-4.31	49576.900	1.0	137561.100	1.0
113.2459	26.02	-2.89	135735.310	5.0	224038.730	5.0	113.6592	27.02	-4.36	37021.000	3.5	125003.300	2.5
113.2505	27.02	-3.19	15201.900	2.5	103501.700	3.5	113.6610	24.02	-1.93	43286.400	4.0	131267.300	4.0
113.2631	10.01	-3.56	219130.780	2.5	307420.620	2.5	113.6688	23.02	-2.62	11966.300	3.5	99941.200	3.5
113.2706	26.02	-4.09	113635.340	4.0	201919.530	4.0	113.6781	26.02	-3.66	49576.900	1.0	137544.600	2.0
113.2710	26.01	-5.34	7955.240	3.5	96239.100	4.5	113.6793	13.03	-1.70	682869.300	1.0	770836.100	1.0
113.2721	13.01	-4.01	59849.700	1.0	148132.700	2.0	113.6793	13.03	-1.70	682869.300	1.0	770836.100	1.0
113.2766	26.02	-3.48	50412.300	2.0	138691.810	1.0	113.6814	26.01	-6.12	8391.920	2.5	96357.070	3.5
113.2798	29.01	-5.97	22846.970	2.0	111124.000	1.0	113.7024	30.02	-3.36	192763.700	3.0	280172.600	3.0
113.2798	10.03	-4.99	524391.000	.5	612668.000	.5	113.7036	10.04	-5.78	414.000	1.0	88362.000	2.0
113.2819	8.02	-2.91	290956.620	1.0	379232.000	1.0	113.7037	27.02	-4.16	55729.200	3.5	143677.100	3.5
113.2832	26.02	-3.47	134549.000	3.0	222823.330	4.0	113.7052	26.02	-5.43	35803.700	2.0	123750.390	3.0
113.2853	17.00	-4.38	0.000	1.5	88272.720	.5	113.7067	24.02	-1.23	43321.700	3.0	131267.300	4.0
113.2983	27.02	-4.23	15428.200	1.5	103690.800	.5	113.7084	26.02	-3.57	142312.900	3.0	230257.150	2.0
113.2998	26.02	-2.63	30088.840	3.0	118350.240	.5	113.7090	28.01	-8.86	9390.040	3.5	97273.830	2.5
113.3053	26.02	-3.80	113635.340	4.0	201892.440	5.0	113.7113	24.02	-4.94	20851.300	4.0	108793.300	3.0
113.3135	26.02	-3.72	134360.400	4.0	222611.160	5.0	113.7125	25.01	-5.94	0.000	3.0	87941.080	4.0
113.3178	13.01	-3.02	59849.700	1.0	148097.100	0.0	113.7152	10.01	-3.24	219130.780	2.5	307069.810	1.5
113.3191	10.01	-3.30	219648.440	1.5	307894.840	2.5	113.7428	26.02	-4.18	40999.870	2.0	128917.510	2.0
113.3241	26.02	-1.51	113677.010	5.0	201919.530	4.0	113.7440	23.02	-2.75	11591.800	1.5	99508.500	1.5
113.3260	25.04	-3.41	177314.000	2.5	265555.000	3.5	113.7503	26.02	-3.76	50276.100	4.0	138187.930	3.0
113.3328	26.02	-4.41	73849.100	1.0	162084.860	2.0	113.7521	27.02	-5.49	37316.500	2.5	125227.000	3.5
113.3352	26.02	-3.13	135096.840	3.0	223330.710	3.0	113.7621	27.02	-3.99	23058.800	2.5	110961.500	1.5
113.3388	26.02	-3.95	135096.840	3.0	223327.870	2.0	113.7661	26.02	-4.41	82410.940	2.0	170310.600	3.0
113.3389	25.01	-4.62	31022.050	0.0	119253.000	1.0	113.7741	26.02	-6.05	35803.700	2.0	123697.180	2.0
113.3404	10.01	-3.30	219947.460	.5	308177.220	1.5	113.7751	26.02	-2.98	50295.200	3.0	138187.930	3.0
113.3433	27.02	-3.48	15428.200	1.5	103655.700	1.5	113.7815	26.01	-5.93	8391.920	2.5	96279.650	2.5
113.3554	29.01	-4.28	26264.400	2.0	11								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
113.8849	26.02	-2.19	50295.200	3.0	138103.120	4.0
113.8936	6.01	-4.45	110624.170	.5	198425.430	1.5
113.8946	6.00	-2.85	43.400	2.0	87843.910	1.0
113.8954	26.02	-3.11	30886.400	4.0	118686.250	4.0
113.8978	26.02	-3.28	134976.220	3.0	222774.220	2.0
113.8999	24.02	-1.99	43321.700	3.0	131118.100	3.0
113.9084	26.02	-3.03	134976.220	3.0	222766.040	3.0
113.9085	26.02	-3.88	134976.220	3.0	222765.970	4.0
113.9087	6.00	-3.94	0.000	0.0	87789.630	1.0
113.9093	6.00	-2.12	43.400	2.0	87832.540	2.0
113.9124	6.00	-3.65	43.400	2.0	87830.170	1.0
113.9133	7.00	-4.59	28838.920	.5	116625.000	1.5
113.9138	7.00	-3.84	28839.306	1.5	116625.000	1.5
113.9185	26.02	-3.74	134976.220	3.0	222758.280	2.0
113.9230	17.01	-3.36	27877.800	0.0	115656.400	1.0
113.9231	26.02	-2.11	50276.100	4.0	138054.590	5.0
113.9277	25.04	-4.86	176937.000	1.5	264712.000	1.5
113.9289	26.02	-4.25	134976.220	3.0	222750.230	3.0
113.9300	6.00	-4.06	16.400	1.0	87789.630	1.0
113.9311	26.02	-4.64	135554.410	4.0	223326.760	4.0
113.9311	10.01	-2.46	219648.440	1.5	307420.820	2.5
113.9332	6.01	-2.20	110665.560	1.5	198436.310	2.5
113.9360	10.01	-2.09	219130.780	2.5	306899.320	2.5
113.9393	26.04	-3.68	187162.000	3.0	274928.000	3.0
113.9425	6.00	-2.68	43.400	2.0	87806.930	3.0
113.9473	6.01	-1.15	110665.560	1.5	198425.430	1.5
113.9508	24.02	-5.93	20702.000	3.0	108459.200	2.0
113.9514	6.00	-2.03	16.400	1.0	87773.090	2.0
113.9537	26.02	-3.96	135554.410	4.0	223309.370	5.0
113.9547	23.02	-1.26	12187.000	4.5	99941.200	3.5
113.9559	28.01	-3.03	29070.930	1.5	116824.150	2.5
113.9611	26.02	-5.39	35803.700	2.0	123552.950	1.0
113.9638	28.01	-8.89	14995.570	2.5	102742.740	1.5
113.9643	26.02	-2.25	57221.700	4.0	144968.500	1.5
113.9650	6.00	-3.85	43.400	2.0	87789.630	1.0
113.9677	23.02	-1.54	583.800	4.5	88327.960	3.5
113.9704	7.00	-4.30	28838.920	.5	116581.000	.5
113.9709	7.00	-4.68	28839.306	1.5	116581.000	.5
113.9747	23.02	-3.29	11769.700	2.5	99508.500	1.5
113.9749	25.01	-3.97	31514.350	4.0	119253.000	5.0
113.9749	25.01	-4.84	31514.350	4.0	119253.000	4.0
113.9766	6.00	-2.82	16.400	1.0	87753.730	2.0
113.9788	29.01	-5.40	26264.400	2.0	114000.000	3.0
113.9791	23.02	-2.57	145.500	2.5	87880.850	2.5
113.9792	6.00	-2.07	0.000	0.0	87735.300	1.0
113.9812	6.00	-1.70	43.400	2.0	87777.170	3.0
113.9865	6.00	-2.91	43.400	2.0	87773.090	2.0
113.9896	26.02	-4.78	135582.080	6.0	223309.370	5.0
113.9900	17.03	-3.07	32547.000	0.0	120274.000	3.0
113.9904	26.02	-1.72	30716.200	2.0	118442.920	3.0
114.0005	6.00	-2.39	16.400	1.0	87735.300	1.0
114.0010	6.00	-2.93	0.000	0.0	87718.560	1.0
114.0079	26.02	-3.64	142535.070	2.0	230248.260	1.0
114.0104	7.02	-4.48	267244.400	2.5	354955.700	3.5
114.0117	6.00	-2.34	43.400	2.0	87753.730	2.0
114.0223	6.00	-3.05	16.400	1.0	87718.560	1.0
114.0316	6.00	-2.88	16.400	1.0	87711.370	0.0
114.0342	25.04	-4.08	177862.000	3.5	265555.000	3.5
114.0351	26.02	-4.03	70725.010	3.0	158417.310	2.0
114.0356	6.00	-4.22	43.400	2.0	87735.300	1.0
114.0357	6.00	-2.19	16.400	1.0	87708.210	2.0
114.0381	26.02	-3.56	135582.080	6.0	223272.060	6.0
114.0423	27.02	-3.62	37316.500	2.5	125003.300	2.5
114.0441	6.00	.53	10192.630	2.0	97878.000	2.0
114.0459	25.02	-2.62	29167.700	2.5	116851.690	3.5
114.0459	28.01	-1.08	10115.660	2.5	97799.660	1.5
114.0545	26.02	-3.88	135096.840	3.0	222774.220	2.0
114.0553	25.02	-1.76	26824.000	5.5	114501.180	4.5
114.0574	6.00	-2.83	43.400	2.0	87718.560	1.0
114.0627	26.02	-4.97	122944.150	4.0	210615.210	3.0
114.0630	26.02	-5.19	30886.400	4.0	118557.250	5.0
114.0636	23.02	-2.00	11769.700	2.5	99440.100	2.5
114.0641	6.00	-2.37	43.400	2.0	87713.380	3.0
114.0651	26.02	-3.34	135096.840	3.0	222766.040	3.0
114.0652	26.02	-3.32	135096.840	3.0	222765.970	4.0
114.0671	23.02	-1.73	11513.800	.5	99181.500	1.5
114.0675	26.02	-2.85	134937.840	2.0	222605.240	3.0
114.0709	6.00	-3.91	43.400	2.0	87708.210	2.0
114.0731	7.00	-4.54	28838.920	.5	116502.000	1.5
114.0731	7.00	-4.13	28838.920	.5	116502.000	1.5
114.0736	7.00	-3.85	28839.306	1.5	116502.000	1.5
114.0736	7.00	-4.43	28839.306	1.5	116502.000	1.5
114.0752	26.02	-4.09	135096.840	3.0	222758.280	2.0
114.0758	10.01	-3.68	219648.440	1.5	307309.460	.5
114.0857	26.02	-3.39	135096.840	3.0	222750.230	3.0
114.0900	25.02	-2.94	26851.100	4.5	114501.180	4.5
114.1015	25.02	-4.48	26859.900	3.5	114501.180	4.5
114.1029	15.01	-3.32	164.800	1.0	87805.000	2.0
114.1064	26.02	-4.12	135096.840	3.0	222734.330	4.0
114.1163	26.02	-2.57	25725.800	3.0	113355.700	2.0
114.1167	26.02	-2.92	134976.220	3.0	222605.820	4.0
114.1174	26.02	-3.69	134976.220	3.0	222605.240	3.0
114.1187	7.00	-3.18	28838.920	.5	116467.000	1.5
114.1187	7.00	-2.88	28838.920	.5	116467.000	1.5
114.1192	7.00	-2.48	28839.306	1.5	116467.000	1.5
114.1192	7.00	-3.18	28839.306	1.5	116467.000	1.5
114.1225	26.02	-4.31	135705.570	3.0	223330.710	3.0
114.1272	26.02	-6.61	57221.700	4.0	144843.240	5.0
114.1326	6.00	-4.11	16.400	1.0	87633.750	2.0
114.1390	25.02	-3.03	43674.700	1.5	131287.180	.5
114.1409	25.02	-4.27	130895.390	4.5	218506.390	3.5
114.1474	25.04	-4.42	177862.000	3.5	265468.000	2.5
114.1477	26.02	-4.47	40999.870	2.0	128605.650	1.0
114.1525	7.00	-4.50	28838.920	.5	116441.000	.5
114.1530	7.00	-4.80	28839.306	1.5	116441.000	.5
114.1530	7.00	-4.91	28839.306	1.5	116441.000	1.5
114.1563	26.01	-7.29	8680.470	1.5	96279.650	2.5
114.1596	7.00	-4.31	28839.306	1.5	116436.000	1.5
114.1664	26.02	-4.35	135735.310	5.0	223326.760	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
114.1666	25.01	-4.61	31661.720	3.0	119253.000	4.0
114.1678	6.00	-3.67	43.400	2.0	87633.750	2.0
114.1687	23.02	-1.75	11591.800	1.5	99181.500	1.5
114.1746	26.02	-2.32	30857.800	3.0	118442.920	3.0
114.1810	25.01	-7.66	0.000	3.0	87580.230	4.0
114.1857	25.02	-4.25	130731.310	3.5	218307.980	2.5
114.1857	9.02	-1.82	380250.520	2.5	467827.160	1.5
114.1882	24.02	-1.95	25781.000	2.0	113355.700	2.0
114.1891	26.02	-3.32	135735.310	5.0	223309.370	5.0
114.1945	26.02	-3.68	135739.470	6.0	223309.370	5.0
114.2078	26.02	-3.96	135217.170	1.0	222776.890	1.0
114.2081	23.02	-1.77	11513.800	.5	99073.230	.5
114.2112	26.02	-4.26	135217.170	1.0	222774.220	2.0
114.2119	26.02	-4.63	30886.400	4.0	118442.920	3.0
114.2198	25.02	-3.81	43573.160	4.5	131123.640	5.5
114.2320	26.02	-4.06	135217.170	1.0	222758.280	2.0
114.2343	23.02	-2.15	341.500	3.5	87880.850	2.5
114.2360	28.01	-6.13	0.000	2.5	87538.090	3.5
114.2375	26.01	-2.98	0.000	4.5	87536.900	3.5
114.2377	26.02	-3.61	135735.310	5.0	223272.060	6.0
114.2432	26.02	-2.47	135739.470	6.0	223272.060	6.0
114.2461	26.02	-1.02	30716.200	2.0	118246.520	3.0
114.2491	7.00	-4.68	28838.920	.5	116367.000	1.5
114.2496	7.00	-4.36	28839.306	1.5	116367.000	1.5
114.2507	9.02	-3.65	357479.350	1.5	445006.130	2.5
114.2514	26.02	-3.50	135239.740	4.0	222766.040	3.0
114.2515	26.02	-2.86	135239.740	4.0	222765.970	4.0
114.2538	25.02	-3.21	29167.700	2.5	116692.140	2.5
114.2596	9.02	-2.90	380307.130	1.5	467827.160	1.5
114.2607	26.02	-2.75	136532.450	2.0	224051.630	3.0
114.2618	26.02	-4.67	135316.420	5.0	222834.770	6.0
114.2643	29.01	-2.65	22846.970	2.0	110363.400	2.0
114.2699	7.00	-4.68	28838.920	.5	116351.000	.5
114.2720	26.02	-3.28	135239.740	4.0	222750.230	3.0
114.2740	26.02	-3.01	135096.840	3.0	222605.820	4.0
114.2741	23.04	.35	206350.600	.5	293859.500	1.5
114.2747	26.02	-4.09	135096.840	3.0	222605.240	3.0
114.2759	24.02	-2.66	25848.200	1.0	113355.700	2.0
114.2791	26.02	-3.03	135239.740	4.0	222744.790	5.0
114.2874	15.01	-2.89	469.000	2.0	87967.700	3.0
114.2920	26.02	-3.56	135279.040	2.0	222774.220	2.0
114.2928	26.02	-3.08	135239.740	4.0	222734.330	4.0
114.2942	13.01	-3.66	59849.700	1.0	147343.200	2.0
114.2956	26.02	-1.44	30857.800	3.0	118350.240	4.0
114.3019	26.02	-3.81	50276.100	4.0	137763.700	5.0
114.3027	26.02	-3.53	135279.040	2.0	222766.040	3.0
114.3054	27.02	-4.96	20918.500	.5	108403.400	1.5
114.3100	23.02	-2.50	11591.800	1.5	99073.230	.5
114.3116	25.02	-4.08	130895.390	4.5	218375.610	4.5
114.3128	26.02	-4.13	135279.040	2.0	222758.280	2.0
114.3148	9.02	-4.46	357479.350	1.5	444957.110	1.5
114.3199	23.02	-1.72	11966.300	3.5	99440.100	2.5
114.3209	25.02	-4.15	131123.640	5.5	218596.690	5.5
114.3209	7.00	-3.88	28838.920	.5	116312.000	.5
114.3209	7.00	-4.78	28838.920	.5	116312.000	1.5
114.3214	7.00	-4.18	28839.306	1.5	116312.000	.5
114.3214	7.00	-4.08	28839.306	1.5	116312.000	1.5
114.3214	7.00	-3.98	28839.306	1.5	116312.000	2.5
114.3234	26.02	-3.96	135279.040	2.0	222750.230	3.0
114.3239	26.01	-1.88	0.000	4.5	87470.800	4.5
114.3300	7.00	-3.69	28838.920	.5	116305.000	1.5
114.3300	7.00	-4.94	28838.920	.5	116305.000	.5
114.3305	7.00	-3.86	28839.306	1.5	116305.000	1.5
114.3305	7.00	-3.91	28839.306	1.5	116305.000	.5
114.3313	28.01	-3.10	23108.280	2.5	110573.360	2.5
114.3330	26.02	-5.07	30886.400	4.0	118350.240	4.0
114.3354	9.02	-2.04	380307.130	1.5	467769.110	.5
114.3388	26.02	-4.14	135239.740	4.0	222699.090	5.0
114.3396	28.01	-1.38	10663.890	1.5	98122.630	.5
114.3447	26.02	-2.08	79844.740	6.0	167299.600	5.0
114.3501	25.02	-2.84	29241.400	1.5	116692.140	2.5
114.3506	28.01	-4.32	51045.460	.5	138495.840	.5
114.3516	26.02	-3.42	135316.420	5.0	222765.970	4.0
114.3545	26.02	-1.89	30716.200	2.0	118163.560	2.0
114.3564	26.02	-4.40	136612.780	4.0	224058.700	4.0
114.3576	25.04	-4.77	176937.000	1.5	264382.000	.5
114.3579	16.02	-3.45	11320.800	2.0	98765.000	1.0
114.3646	7.00	- .91	28838.920	.5	116278.558	.5
114.3651	7.00	- .61	28839.306	1.5	116278.558	.5
114.3652	26.02	-3.63	79860.420	5.0	167299.600	5.0
114.3653	13.01	-2.89	59849.700	1.0	147288.800	0.0
114.3656	26.02	-4.66	136612.780	4.0	224051.630	3.0
114.3662	12.02	-4.71	496012.100	0.0	583450.500	1.0
114.3671	26.02	-1.11	30725.800	1.0	118163.560	2.0
114.3732	26.02	-2.38	30088.840	3.0	117521.910	4.0
114.3771	25.02	-4.05	26857.800	2.5	114287.910	2.5
114.3793	26.02	-2.67	135316.420	5.0	222744.790	5.0
114.3798	25.02	-3.07	26859.900	3.5	114287.910	2.5
114.3825	26.02	-2.72	136612.780	4.0	224038.730	5.0
114.3874	16.02	-3.84	11320.800	2.0	98743.000	2.0
114.3885	10.01	-3.05	219648.440	1.5	307069.810	1.5
114.3902	7.00	-4.06	28838.920	.5	116259.000	.5
114.3907	7.00	-4.36	28839.306	1.5	116259.000	.5
114.3930	26.02	-3.04	135316.420	5.0	222734.330	4.0
114.4002	25.02	-4.58	29167.700	2.5	116580.170	1.5
114.4010	23.02	-2.72	11769.700	2.5	99181.500	1.5
114.4127	10.02	-3.92	352662.050	1.0	440064.900	1.0
114.4156	7.00	-3.83	28839.306	1.5	116240.000	1.5
114.4165	26.04	-4.05	186736.000	2.0	274136.000	2.0
114.4191	25.04	-4.31	177314.000	2.5	264712.000	1.5
114.4193	26.02	-3.09	135316.420	5.0	222714.300	6.0
114.4291	17.00	-3.98	882.360	.5	88272.720	.5
114.4312	26.02	-2.06	30857.800	3.0	118246.520	3.0
114.4376	25.02	-4.23	130731.310	3.5	218115.150	3.5
114.4392	26.02	-3.07	135316.420	5.0	222699.090	5.0
114.4399	25.02	-4.07	131287.180	.5	128669.260	1.5
114.4476	26.02	-4.00	50184.900	2.0	137561.100	1.0
114.4497	28.01	-8.23	1506.940	1.5	88881.590	.5
114.4520	25.02	-3.50	29207.300	.5	116580.170	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
114.4532	10.02	-3.27	352692.930	2.0	440064.900	1.0	114.7463	26.02	-3.85	50412.300	2.0	137561.100	1.0
114.4539	26.02	-2.61	135239.740	4.0	222611.160	5.0	114.7468	26.02	-2.71	50276.100	4.0	137423.000	3.0
114.4609	26.02	-3.44	135239.740	4.0	222605.820	4.0	114.7517	26.02	-4.49	135554.410	4.0	226999.090	5.0
114.4617	26.02	-4.98	135239.740	4.0	222605.240	3.0	114.7634	28.01	-2.44	10663.890	1.5	97799.660	1.5
114.4621	26.02	-0.81	57221.700	4.0	144586.830	5.0	114.7662	7.00	-3.48	28839.306	1.5	115973.000	1.5
114.4662	10.01	-3.99	219947.460	5	307309.460	5	114.7660	26.02	-3.47	50412.300	2.0	137544.600	2.0
114.4687	26.02	-3.96	30886.400	4.0	118246.520	3.0	114.7681	26.02	-3.44	135582.080	6.0	222714.300	6.0
114.4693	26.02	-3.13	50184.900	2.0	137544.600	2.0	114.7703	26.02	-3.83	136200.130	3.0	223330.710	3.0
114.4716	25.02	-2.31	26851.100	4.5	114209.010	3.5	114.7726	25.02	-4.59	43602.500	3.5	130731.310	3.5
114.4804	25.02	-4.81	26857.800	2.5	114209.010	3.5	114.7739	26.02	-3.63	50295.200	3.0	137423.000	3.0
114.4831	25.02	-3.26	26859.900	3.5	114209.010	3.5	114.7755	26.02	-2.76	136200.130	3.0	223326.760	4.0
114.4835	26.02	-4.12	57221.700	4.0	144570.530	3.0	114.7766	29.01	-3.09	23998.220	1.0	111124.000	1.0
114.4855	29.01	-2.41	21928.600	3.0	109275.900	3.0	114.7787	26.02	-4.01	136185.170	5.0	223309.370	5.0
114.4861	26.02	-2.46	79860.420	5.0	167207.300	4.0	114.7811	10.01	-2.76	219947.460	5	307069.810	1.5
114.4946	26.01	-1.07	0.000	4.5	87340.400	5.5	114.7873	26.02	-5.23	35803.700	2.0	122921.370	1.0
114.4950	26.02	-4.67	135990.620	4.0	223330.710	3.0	114.7881	26.02	-3.74	135582.080	6.0	222699.090	5.0
114.4967	25.02	-3.38	29241.400	1.5	116580.170	1.5	114.7904	25.02	-4.03	121701.690	1.5	218816.970	2.5
114.4987	26.02	-4.80	142855.590	4.0	230192.860	3.0	114.7967	26.02	-1.31	57221.700	4.0	144332.210	4.0
114.5001	26.02	-4.33	135990.620	4.0	223326.760	4.0	114.8057	28.02	-7.33	23108.700	4.0	110212.000	5.0
114.5003	15.01	-3.82	469.000	2.0	87805.000	2.0	114.8078	27.02	-3.25	20194.900	1.5	107297.000	1.5
114.5057	20.02	-1.13	272188.700	1.0	359520.600	2.0	114.8113	26.02	-3.47	135735.310	5.0	222834.770	6.0
114.5122	14.02	-0.04	142943.740	3.0	230270.660	4.0	114.8128	10.02	-3.96	352662.050	1.0	439760.350	0.0
114.5132	26.02	-3.59	135279.040	2.0	222605.240	3.0	114.8143	26.02	-4.53	135735.310	5.0	222832.480	5.0
114.5146	7.00	-4.64	28838.920	5	116164.000	5	114.8170	26.02	-4.25	35803.700	2.0	122898.840	2.0
114.5146	7.00	-4.60	28838.920	5	116164.000	1.5	114.8211	26.02	-3.04	136235.840	1.0	223327.870	2.0
114.5149	14.02	-1.04	142943.740	3.0	230268.620	3.0	114.8266	26.02	-4.59	49148.000	0.0	136235.840	1.0
114.5151	7.00	-4.94	28839.306	1.5	116164.000	5	114.8278	26.02	-2.41	136185.170	5.0	223272.060	6.0
114.5151	7.00	-4.92	28839.306	1.5	116164.000	1.5	114.8290	26.01	-1.24	384.770	3.5	87470.800	4.5
114.5156	28.01	-2.95	23796.180	1.5	111120.540	1.5	114.8300	26.02	-3.90	135739.470	6.0	222824.710	7.0
114.5161	14.02	-2.89	142943.740	3.0	230267.700	2.0	114.8311	8.02	-3.81	294001.600	2.0	381086.000	1.0
114.5177	14.02	-1.14	142945.840	2.0	230268.620	3.0	114.8338	20.02	-3.23	203851.950	1.0	290934.300	0.0
114.5184	25.02	-4.59	43573.160	4.5	130895.390	4.5	114.8345	26.02	-3.75	114948.550	3.0	202030.380	3.0
114.5187	26.02	-3.58	136008.740	3.0	223330.710	3.0	114.8456	23.02	-0.92	145.500	2.5	87218.920	3.5
114.5189	14.02	-1.02	142945.840	2.0	230267.700	2.0	114.8519	26.02	-4.29	135705.570	3.0	222774.220	2.0
114.5220	14.02	-0.29	142948.250	1.0	230267.700	2.0	114.8601	25.02	-3.82	43668.840	2.5	130731.310	3.5
114.5224	26.02	-4.91	136008.740	3.0	223327.870	2.0	114.8627	26.02	-4.03	135705.570	3.0	222766.040	3.0
114.5229	26.02	-2.53	135990.620	4.0	223309.370	5.0	114.8628	26.02	-4.86	135705.570	3.0	222765.970	4.0
114.5239	26.02	-3.89	136008.740	3.0	223326.760	4.0	114.8651	28.01	-3.90	13550.390	3.5	100609.010	2.5
114.5254	26.02	-3.21	49148.000	0.0	136464.900	1.0	114.8676	26.02	-3.76	135554.410	4.0	222611.160	5.0
114.5264	7.00	-4.94	28838.920	5	116155.000	1.5	114.8693	23.02	-2.23	11769.700	2.5	98825.190	3.5
114.5264	7.00	-4.24	28838.920	5	116155.000	5	114.8729	26.02	-4.84	135705.570	3.0	222758.280	2.0
114.5269	7.00	-4.25	28839.306	1.5	116155.000	1.5	114.8746	26.02	-4.75	135554.410	4.0	222605.820	4.0
114.5269	7.00	-4.98	28839.306	1.5	116155.000	5	114.8764	7.00	-3.90	28838.920	5	115889.000	5
114.5309	27.02	-4.14	20194.900	1.5	107507.600	5	114.8764	7.00	-3.78	28838.920	5	115889.000	1.5
114.5313	27.02	-3.58	23058.800	2.5	110371.200	2.5	114.8769	7.00	-4.39	28839.306	1.5	115889.000	5
114.5394	17.00	-3.80	882.360	5	88188.550	1.5	114.8769	7.00	-3.59	28839.306	1.5	115889.000	1.5
114.5400	26.02	-3.36	30857.800	3.0	118163.560	2.0	114.8790	7.00	-4.26	28838.920	5	115887.000	5
114.5432	27.02	-4.76	56373.800	2.5	143677.100	3.5	114.8796	7.00	-4.56	28839.306	1.5	115887.000	5
114.5544	26.02	-3.36	135316.420	5.0	222611.160	5.0	114.8796	7.00	-4.49	28839.306	1.5	115887.000	1.5
114.5569	25.02	-3.79	43602.500	3.5	130895.390	4.5	114.8796	7.00	-4.80	28839.306	1.5	115887.000	2.5
114.5614	26.02	-4.77	135316.420	5.0	222605.820	4.0	114.8814	27.02	-3.90	24236.800	1.5	111283.100	5
114.5658	26.02	-2.50	135316.420	5.0	222602.500	6.0	114.8821	10.02	-3.94	352662.050	1.0	439707.810	1.0
114.5671	7.00	-3.74	28838.920	5	116124.000	5	114.8906	26.02	-4.81	35803.700	2.0	122843.030	1.0
114.5671	7.00	-4.65	28838.920	5	116124.000	1.5	114.9020	26.02	-3.74	135735.310	5.0	222765.970	4.0
114.5676	7.00	-4.04	28839.306	1.5	116124.000	5	114.9084	26.02	-5.25	35803.700	2.0	122829.550	3.0
114.5676	7.00	-3.95	28839.306	1.5	116124.000	1.5	114.9156	26.02	-4.27	135582.080	6.0	222602.500	6.0
114.5676	7.00	-3.85	28839.306	1.5	116124.000	2.5	114.9213	7.00	-3.60	28838.920	5	115855.000	5
114.5763	26.02	-3.67	135554.410	4.0	222832.480	5.0	114.9213	7.00	-4.51	28838.920	5	115855.000	1.5
114.5824	28.01	-4.99	32523.540	3.5	119796.980	2.5	114.9218	7.00	-3.90	28839.306	1.5	115855.000	5
114.5883	26.02	-4.82	135554.410	4.0	222823.330	4.0	114.9218	7.00	-3.81	28839.306	1.5	115855.000	1.5
114.5894	7.00	-3.56	28838.920	5	116107.000	1.5	114.9218	7.00	-3.66	28839.306	1.5	115855.000	2.5
114.5894	7.00	-4.83	28838.920	5	116107.000	5	114.9229	10.02	-3.43	352692.930	2.0	439707.810	1.0
114.5899	7.00	-3.75	28839.306	1.5	116107.000	1.5	114.9284	26.02	-4.07	50412.300	2.0	137423.000	3.0
114.5899	7.00	-3.78	28839.306	1.5	116107.000	5	114.9300	26.02	-3.30	135735.310	5.0	222744.790	5.0
114.5968	25.01	-6.95	14325.860	4.0	101588.300	3.0	114.9309	26.02	-3.39	135582.080	6.0	222590.860	7.0
114.5969	28.02	-6.72	23108.700	4.0	110371.100	4.0	114.9348	28.01	-4.24	51557.850	3.5	138563.710	3.5
114.5979	26.02	-2.89	236797.050	3.0	224058.700	4.0	114.9355	26.02	-3.45	135739.470	6.0	222744.790	5.0
114.6029	26.02	-3.69	136793.820	2.0	224051.630	3.0	114.9385	7.00	-4.81	28838.920	5	115842.000	5
114.6040	26.02	-4.67	70725.010	3.0	157982.000	3.0	114.9390	7.00	-3.61	28839.306	1.5	115842.000	5
114.6072	26.02	-3.42	136797.050	3.0	224051.630	3.0	114.9390	7.00	-3.21	28839.306	1.5	115842.000	1.5
114.6089	26.02	-3.46	70728.750	4.0	157982.000	3.0	114.9412	29.02	-3.39	60804.900	4.5	147805.900	3.5
114.6104	30.02	-0.82	190341.300	4.0	277593.400	4.0	114.9438	26.02	-3.43	135735.310	5.0	222734.330	4.0
114.6106	25.02	-2.97	131123.640	5.5	218375.610	4.5	114.9458	25.01	-8.80	14593.820	3.0	101588.300	3.0
114.6108	26.02	-3.11	50276.100	4.0	137527.920	4.0	114.9472	8.02	-1.64	350026.100	0.0	437015.000	1.0
114.6120	10.01	-2.79	219648.440	1.5	306899.330	2.5	114.9693	26.02	-5.74	30088.840	3.0	117068.560	3.0
114.6132	10.04	-3.75	1112.000	2.0	88362.000	2.0	114.9703	26.02	-1.70	113677.010	5.0	200656.020	6.0
114.6140	26.02	-2.53	50295.200	3.0	137544.600	2.0	114.9758	26.02	-2.47	135739.470	6.0	222714.300	6.0
114.6152	25.01	-5.04	29889.310	3.0	117137.800	4.0							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
115.1047	23.02	-1.11	341.500	3.5	87218.920	3.5	115.3908	26.02	-2.19	57221.700	4.0	143883.740	5.0
115.1068	26.02	-3.49	135735.310	5.0	222611.160	5.0	115.3949	26.02	-4.40	49576.900	1.0	136235.840	1.0
115.1123	26.02	-4.72	135739.470	6.0	222611.160	5.0	115.3949	26.02	-3.53	136117.940	2.0	222776.890	1.0
115.1139	26.02	-4.63	135735.310	5.0	222605.820	4.0	115.3959	26.01	-1.96	977.030	.5	87635.200	.5
115.1155	26.01	-1.44	667.640	2.5	87536.900	3.5	115.3983	15.01	-2.25	469.000	2.0	87125.400	2.0
115.1183	26.02	-3.34	135735.310	5.0	222602.500	6.0	115.3984	26.02	-3.12	136117.940	2.0	222774.220	2.0
115.1221	26.02	-1.99	57221.700	4.0	144085.970	4.0	115.3992	26.02	-2.39	113739.620	6.0	200395.330	5.0
115.1238	26.02	-3.33	135739.470	6.0	222602.500	6.0	115.4087	26.02	-2.29	113677.010	5.0	200325.560	4.0
115.1239	26.02	-4.07	136464.900	1.0	223327.870	2.0	115.4093	26.02	-3.18	136117.940	2.0	222766.040	3.0
115.1293	23.02	-1.38	11966.300	3.5	98825.190	3.5	115.4129	24.02	-3.18	25725.800	3.0	112371.200	2.0
115.1361	26.02	-1.62	113584.200	2.0	200437.940	2.0	115.4147	7.00	-3.46	28838.920	.5	115483.000	.5
115.1392	26.02	-2.41	135739.470	6.0	222590.860	7.0	115.4147	7.00	-4.36	28838.920	.5	115483.000	1.5
115.1424	26.02	-4.16	137209.730	4.0	224058.700	4.0	115.4152	7.00	-3.76	28839.306	1.5	115483.000	.5
115.1515	29.02	-4.88	60804.900	4.5	147647.000	5.5	115.4152	7.00	-3.66	28839.306	1.5	115483.000	1.5
115.1517	25.04	-2.95	184633.000	3.5	271475.000	4.5	115.4152	7.00	-3.80	28839.306	1.5	115483.000	2.5
115.1518	26.02	-4.32	135990.620	4.0	222832.460	5.0	115.4187	7.00	-3.31	28838.920	.5	115480.000	1.5
115.1518	26.02	-4.84	137209.730	4.0	224051.630	3.0	115.4187	7.00	-4.21	28838.920	.5	115480.000	.5
115.1533	8.02	-3.91	293865.260	1.0	380706.000	2.0	115.4192	7.00	-3.22	28839.306	1.5	115480.000	1.5
115.1538	25.02	-4.29	131287.180	.5	218127.590	.5	115.4192	7.00	-3.60	28839.306	1.5	115480.000	.5
115.1642	26.02	-2.37	113605.370	3.0	200437.940	2.0	115.4197	26.02	-3.90	136117.940	2.0	222758.280	2.0
115.1689	26.02	-4.36	137209.730	4.0	224038.730	5.0	115.4225	23.02	-4.02	12187.000	4.5	98825.190	3.5
115.1747	26.02	-4.70	35803.700	2.0	122628.340	2.0	115.4261	26.02	-6.00	30886.400	4.0	117521.910	4.0
115.1825	25.02	-4.40	26857.800	2.5	113676.530	2.5	115.4266	23.02	-1.05	583.800	4.5	87218.920	3.5
115.1853	25.02	-3.53	26859.900	3.5	113676.530	2.5	115.4304	26.02	-3.35	136117.940	2.0	222750.230	3.0
115.1880	26.02	-3.68	136008.740	3.0	222823.330	4.0	115.4340	26.02	-2.34	115289.910	5.0	201919.530	4.0
115.1949	26.02	-6.47	30088.840	3.0	116898.220	2.0	115.4403	26.01	-2.06	977.030	.5	87601.900	1.5
115.1959	26.02	-2.70	115110.920	4.0	201919.530	4.0	115.4417	28.01	-1.04	8393.900	4.5	95017.710	4.5
115.1973	23.02	-3.52	11591.800	1.5	98399.420	.5	115.4425	26.02	-4.69	136200.130	3.0	222823.330	4.0
115.1979	25.01	-7.19	14781.190	2.0	101588.300	3.0	115.4446	28.01	-6.73	1506.940	1.5	88128.560	2.5
115.2073	26.02	-1.81	113584.200	2.0	200384.280	3.0	115.4461	26.02	-3.81	135990.620	4.0	222611.160	5.0
115.2097	26.02	-4.63	136532.450	2.0	223330.710	3.0	115.4550	23.02	-3.85	11769.700	2.5	98383.530	2.5
115.2135	26.02	-3.99	136532.450	2.0	223327.870	2.0	115.4572	26.02	-2.89	50184.900	2.0	136797.050	3.0
115.2173	23.02	-2.28	145.500	2.5	86938.010	2.5	115.4602	28.01	-4.52	10663.890	1.5	97273.830	2.5
115.2183	29.02	-2.77	67016.600	3.5	153808.400	4.5	115.4615	26.02	-2.34	50184.900	2.0	136793.820	2.0
115.2184	23.02	-2.87	11591.800	1.5	98383.530	2.5	115.4621	14.03	-1.95	250008.020	2.5	336616.550	2.5
115.2240	11.02	-2.65	442710.500	1.5	529498.000	1.5	115.4621	14.03	-6.65	250008.020	2.5	336616.550	3.5
115.2303	7.00	-4.37	28839.306	1.5	115622.000	2.5	115.4622	14.03	-8.81	250008.140	1.5	336616.550	2.5
115.2319	26.02	-3.78	115110.920	4.0	201892.440	5.0	115.4651	29.02	-4.26	131701.690	1.5	218307.980	2.5
115.2334	8.02	-2.00	294001.600	2.0	380782.000	3.0	115.4701	26.02	-4.78	115289.910	5.0	201892.440	5.0
115.2354	26.02	-1.70	113605.370	3.0	200384.280	3.0	115.4762	29.02	-3.83	62065.000	3.5	148662.900	2.5
115.2357	7.00	-4.56	28839.306	1.5	115618.000	.5	115.4773	26.02	-3.81	136008.740	3.0	222605.820	4.0
115.2357	7.00	-3.64	28839.306	1.5	115618.000	2.5	115.4781	26.02	-3.77	136008.740	3.0	222605.240	3.0
115.2377	28.01	-2.77	23796.180	1.5	110573.360	2.5	115.4781	23.02	-9.94	341.500	3.5	86938.010	2.5
115.2400	26.02	-4.51	135990.620	4.0	222766.040	3.0	115.4833	29.02	-2.80	67016.600	3.5	153609.200	3.5
115.2401	26.02	-3.22	135990.620	4.0	222765.970	4.0	115.4865	24.02	-2.09	25781.000	2.0	112371.200	2.0
115.2438	26.01	-2.51	862.630	1.5	87635.200	.5	115.4880	27.02	-3.75	20918.500	.5	107507.600	.5
115.2605	26.02	-1.22	113635.340	4.0	200395.330	5.0	115.4913	23.02	-4.46	16374.700	2.5	102961.280	3.5
115.2608	27.02	-2.96	20194.900	1.5	106954.700	2.5	115.4990	26.02	-4.97	136185.170	5.0	222765.970	4.0
115.2610	26.02	-3.06	135990.620	4.0	222750.230	3.0	115.5002	15.01	-9.94	164.800	1.0	86744.700	1.0
115.2615	28.01	-2.42	14995.570	2.5	101754.800	2.5	115.5080	26.02	-3.34	136200.130	3.0	222774.220	2.0
115.2630	7.00	-6.11	28838.920	.5	115597.000	1.5	115.5117	23.02	-1.06	145.500	2.5	86716.840	1.5
115.2636	7.00	-3.09	28839.306	1.5	115597.000	1.5	115.5189	26.02	-3.64	136200.130	3.0	222766.040	3.0
115.2641	26.02	-4.52	136008.740	3.0	222766.040	3.0	115.5190	26.02	-3.18	136200.130	3.0	222765.970	4.0
115.2642	26.02	-3.48	136008.740	3.0	222765.970	4.0	115.5273	26.02	-3.59	136185.170	5.0	222744.790	5.0
115.2678	11.02	-1.71	442710.500	1.5	529465.000	2.5	115.5293	26.02	-4.59	136200.130	3.0	222758.280	2.0
115.2682	26.02	-2.98	135990.620	4.0	222744.790	5.0	115.5400	26.02	-3.05	136200.130	3.0	222750.230	3.0
115.2689	28.01	-4.27	52738.450	2.5	139492.100	2.5	115.5413	26.02	-3.28	136185.170	5.0	222734.330	4.0
115.2708	20.02	-1.64	272188.700	1.0	358940.910	0.0	115.5423	23.02	-1.63	11513.800	.5	98062.220	1.5
115.2744	26.02	-4.25	136008.740	3.0	222758.280	3.0	115.5466	26.01	-5.66	384.770	3.5	86929.920	3.5
115.2752	26.02	-2.37	113635.340	4.0	200384.280	3.0	115.5488	30.02	.81	192763.700	3.0	279307.200	4.0
115.2772	28.01	-4.13	25036.380	2.5	111783.790	3.5	115.5496	26.02	-4.96	35803.700	2.0	122346.610	3.0
115.2808	15.01	-8.82	0.000	0.0	86744.700	1.0	115.5521	26.02	-3.47	49576.900	1.0	136117.940	2.0
115.2813	18.02	-3.89	144882.930	1.0	231627.300	1.0	115.5521	26.02	-3.28	136235.840	1.0	222776.890	1.0
115.2821	26.02	-2.74	135990.620	4.0	222734.330	4.0	115.5557	26.02	-3.58	136235.840	1.0	222774.220	2.0
115.2833	20.02	-3.61	278621.010	1.0	365363.880	1.0	115.5562	17.04	-5.11	0.000	.5	86538.000	1.5
115.2851	26.02	-3.46	136008.740	3.0	222750.230	3.0	115.5577	26.02	-4.63	136793.820	2.0	223330.710	3.0
115.2853	18.02	-4.22	144885.970	2.0	231627.300	1.0	115.5612	26.02	-3.43	136200.130	3.0	222734.330	4.0
115.2865	24.02	-1.89	25725.800	3.0	112466.200	3.0	115.5658	26.02	-3.84	137527.920	4.0	224058.700	4.0
115.2880	26.01	-1.80	862.630	1.5	87601.900	1.5	115.5672	26.02	-4.28	136797.050	3.0	223326.760	4.0
115.2901	28.01	-2.94	23108.280	2.5	109846.000	3.5	115.5672	18.01	-3.89	136230.650	1.5	219160.400	2.5
115.2972	9.02	-1.08	380250.520	2.5	466982.860	2.5	115.5680	26.02	-2.68	136185.170	5.0	222714.300	6.0
115.2999	8.02	-1.54	290956.620	1.0	377687.000	2.0	115.5747	27.02	-5.74	16977.600	4.5	103501.700	3.5
115.3035	9.02	-2.20	380250.520	2.5	466978.150	1.5	115.5753	26.02	-3.11	137527.920	4.0	224051.630	3.0
115.3039	11.02	-4.78	406562.000	1.5	493289.300	1.5	115.5762	24.02	-1.05	25848.200	1.0	112371.200	2.0
115.3062	26.02	-4.01	136008.740	3.0	222734.330	4.0	115.5769	18.01	-3.96	132481.140	2.5	219003.600	2.5
115.3074	27.02	-4.22	24236.800	1.5	110961.500	1.5	115.5770	26.02	-3.39	136235.840	1.0	222758.280	2.0
115.3104	28.01	-4.60	9330.040	3.5	96052.480	2.5	115.5784	28.01	-4.11	29070.930	1.5	115592.250	1.5
115.3134	26.02	-1.58	113605.370	3.0									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
115.6878	25.01	-8.53	27588.230	3.0	114027.800	4.0
115.6898	25.01	-9.08	27588.230	3.0	114026.300	3.0
115.6908	25.01	-9.15	27589.030	2.0	114026.300	3.0
115.6920	15.01	-4.18	45696.800	2.0	132135.200	3.0
115.6928	25.01	-9.53	27589.030	2.0	114024.800	2.0
115.6940	25.01	-4.59	32818.100	0.0	119253.000	1.0
115.6959	15.01	-8.1	164.800	1.0	86598.300	0.0
115.7020	29.01	-3.53	22846.970	2.0	109275.900	3.0
115.7061	25.02	-4.42	131701.690	1.5	218127.590	5
115.7077	13.01	-3.31	59849.700	1.0	146274.400	2.0
115.7137	28.01	-3.50	10115.660	2.5	96535.870	3.5
115.7161	8.02	-9.1	290956.620	1.0	377375.000	2.0
115.7164	26.02	-2.37	115474.250	6.0	201892.440	5.0
115.7177	23.02	-1.11	11966.300	3.5	98383.530	2.5
115.7185	25.01	-4.60	32836.400	1.0	119253.000	1.0
115.7185	25.01	-4.30	32836.400	1.0	119253.000	2.0
115.7186	6.00	-3.76	0.000	0.0	86416.550	1.0
115.7229	11.02	-4.83	406876.000	5	493289.300	1.5
115.7283	30.02	-6.8	194303.300	2.0	280712.600	3.0
115.7286	27.02	-6.06	16977.600	4.5	103386.700	4.5
115.7304	25.02	-3.88	132297.550	2.5	218705.250	2.5
115.7330	6.00	-2.49	43.400	2.0	86449.190	3.0
115.7339	26.02	-4.85	136200.130	3.0	222605.240	3.0
115.7405	6.00	-3.88	16.400	1.0	86416.550	1.0
115.7448	27.02	-4.75	20194.900	1.5	106591.900	1.5
115.7460	25.01	-3.89	32854.950	3.0	119253.000	4.0
115.7460	25.01	-4.44	32854.950	3.0	119253.000	3.0
115.7486	25.01	-4.46	32858.840	2.0	119253.000	2.0
115.7486	25.01	-4.07	32858.840	2.0	119253.000	3.0
115.7578	23.04	-6.0	207617.000	1.5	294004.300	2.5
115.7587	26.02	-5.95	30088.840	3.0	116475.440	3.0
115.7612	26.02	-3.38	50412.300	2.0	136797.050	3.0
115.7619	25.02	-4.35	131701.690	1.5	218085.880	5
115.7634	26.01	-6.05	384.770	3.5	86767.870	2.5
115.7655	26.02	-2.51	50412.300	2.0	136793.820	2.0
115.7695	26.02	-6.97	30088.840	3.0	116467.410	4.0
115.7695	27.02	-3.75	20918.500	5	107297.000	1.5
115.7715	9.02	-3.49	356371.820	2.5	442748.850	2.5
115.7767	6.00	-3.67	43.400	2.0	86416.550	1.0
115.7769	6.00	-1.53	16.400	1.0	86389.380	2.0
115.7787	25.02	-4.21	132297.550	2.5	218669.260	1.5
115.7794	18.01	-4.12	132630.650	1.5	219001.800	1.5
115.7870	25.02	-4.61	131701.690	1.5	218067.190	2.5
115.7874	29.01	-3.35	23998.220	1.0	110363.400	2.0
115.7910	6.00	-1.79	0.000	0.0	86362.520	1.0
115.7920	26.02	-2.88	79860.420	5.0	166222.200	4.0
115.8019	6.00	-1.32	43.400	2.0	86397.600	3.0
115.8035	6.00	-2.55	16.400	1.0	86369.600	2.0
115.8046	26.02	-3.64	30716.200	2.0	117068.560	3.0
115.8110	26.02	-2.67	50184.900	2.0	136532.450	2.0
115.8113	26.02	-9.7	79840.120	7.0	166187.500	6.0
115.8130	6.00	-2.05	16.400	1.0	86362.520	1.0
115.8132	6.00	-2.23	43.400	2.0	86389.380	2.0
115.8175	26.02	-2.58	79844.740	6.0	166187.500	6.0
115.8206	13.01	-2.74	59849.700	1.0	146190.100	0.0
115.8256	26.02	-2.25	50276.100	4.0	136612.780	4.0
115.8314	28.01	-3.01	24788.200	1.5	111120.540	1.5
115.8324	6.00	-2.67	0.000	0.0	86331.630	1.0
115.8339	26.02	-6.46	30088.840	3.0	116419.390	2.0
115.8385	26.02	-4.70	79860.420	5.0	166187.500	6.0
115.8397	6.00	-2.08	43.400	2.0	86369.600	2.0
115.8443	9.02	-4.60	356371.820	2.5	442694.580	1.5
115.8492	6.00	-3.60	43.400	2.0	86362.520	1.0
115.8513	26.02	-3.53	50295.200	3.0	136612.780	4.0
115.8544	6.00	-2.79	16.400	1.0	86331.630	1.0
115.8587	28.01	-3.48	8393.900	4.5	94705.930	3.5
115.8588	26.02	-3.72	136464.900	1.0	222776.890	1.0
115.8611	26.02	-2.40	73727.640	2.0	160037.900	2.0
115.8623	26.02	-4.02	136464.900	1.0	222774.220	2.0
115.8674	6.00	-2.63	16.400	1.0	86321.940	0.0
115.8714	25.01	-9.23	0.000	3.0	86302.550	3.0
115.8732	6.00	-2.25	16.400	1.0	86317.640	2.0
115.8788	9.02	-9.3	355981.900	1.5	442278.930	2.5
115.8816	26.02	-3.28	137763.700	5.0	224058.700	4.0
115.8833	28.01	-1.47	13550.390	3.5	99844.130	3.5
115.8837	26.02	-3.82	136464.900	1.0	222758.280	2.0
115.8849	23.02	-9.9	11769.700	2.5	98062.220	1.5
115.8884	28.01	-4.58	52205.950	3.5	138495.840	4.5
115.8907	6.00	-2.57	43.400	2.0	86331.630	1.0
115.8955	28.01	-3.50	24835.930	5	111120.540	1.5
115.8967	6.00	-2.20	43.400	2.0	86327.160	3.0
115.9017	26.02	-2.28	50184.900	2.0	136464.900	1.0
115.9075	15.01	-7.1	469.000	2.0	86744.700	1.0
115.9084	26.02	-4.31	137763.700	5.0	224038.730	5.0
115.9095	6.00	-3.70	43.400	2.0	86317.640	2.0
115.9186	27.02	-7.53	16977.600	4.5	103245.000	5.5
115.9226	9.02	-7.9	356371.820	2.5	442636.270	3.5
115.9230	18.01	-4.57	132737.610	5	219001.800	1.5
115.9231	26.02	-7.75	113739.620	6.0	200003.700	7.0
115.9236	7.00	-3.51	28839.306	1.5	115103.000	2.5
115.9255	26.01	-5.37	667.640	2.5	86929.920	3.5
115.9275	7.00	-2.89	28839.306	1.5	115100.100	2.5
115.9301	26.02	-4.11	30716.200	2.0	116975.050	2.0
115.9430	20.02	-4.49	30725.800	1.0	116975.050	2.0
115.9433	26.02	-1.14	113635.340	4.0	199884.390	5.0
115.9495	26.02	-3.76	136532.450	2.0	222776.890	1.0
115.9510	28.01	-1.43	9330.040	3.5	95573.390	3.5
115.9521	23.04	-9.35	207617.000	1.5	293859.500	1.5
115.9531	26.02	-4.58	136532.450	2.0	222774.220	2.0
115.9592	26.02	-2.25	50295.200	3.0	136532.450	2.0
115.9603	11.02	-1.97	443261.600	5	529498.000	1.5
115.9615	23.02	-3.01	15550.300	5	101785.810	1.5
115.9641	26.02	-4.28	136532.450	2.0	222766.040	3.0
115.9702	26.02	-8.9	113677.010	5.0	199906.730	6.0
115.9714	18.02	-2.95	156917.620	3.0	243145.760	2.0
115.9745	26.02	-3.42	136532.450	2.0	222758.280	2.0
115.9749	23.02	-7.9	583.800	4.5	86809.390	5.5
115.9761	28.01	-2.87	51557.850	3.5	137782.500	4.5
115.9770	25.02	-3.73	132971.990	3.5	219195.950	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
115.9773	23.02	-1.51	16810.900	4.5	103034.650	4.5
115.9805	26.02	-6.21	30716.200	2.0	116937.570	1.0
115.9809	18.02	-2.18	156924.680	2.0	243145.760	2.0
115.9816	25.02	-5.15	26857.800	2.5	113078.340	1.5
115.9817	7.00	-4.91	0.000	1.5	86220.480	1.5
115.9828	26.02	-4.81	136612.780	4.0	222832.480	5.0
115.9841	28.01	-3.01	51557.850	3.5	137776.550	3.5
115.9843	7.00	-4.67	28838.920	5	115057.500	1.5
115.9848	7.00	-2.97	28839.306	1.5	115057.500	1.5
115.9934	26.02	-4.77	30725.800	1.0	116937.570	1.0
115.9934	23.03	-2.31	151427.000	1.0	237638.800	2.0
115.9948	26.02	-4.86	30857.800	3.0	117068.560	3.0
115.9974	25.02	-4.03	132297.550	2.5	218506.390	3.5
115.9993	26.02	-1.69	113677.010	5.0	199884.390	5.0
116.0012	23.02	-3.18	15579.800	1.5	101785.810	1.5
116.0100	26.02	-1.23	113605.370	3.0	199804.810	4.0
116.0146	28.01	-1.97	51557.850	3.5	137753.870	4.5
116.0181	26.01	-4.21	7955.240	3.5	94148.710	4.5
116.0184	8.02	-9.8	306584.800	2.0	392778.000	1.0
116.0206	28.01	-3.39	29593.460	5	115785.060	1.5
116.0244	26.02	-3.14	73849.100	1.0	160037.900	2.0
116.0333	26.02	-5.44	30886.400	4.0	117068.560	3.0
116.0335	26.02	-3.98	30716.200	2.0	116898.220	2.0
116.0388	7.00	-2.95	28838.920	5	115017.000	1.5
116.0393	7.00	-3.48	28839.306	1.5	115017.000	1.5
116.0393	13.03	-4.30	680862.900	1.0	767040.600	1.0
116.0393	13.03	-4.30	680862.900	1.0	767040.600	1.0
116.0464	26.02	-3.27	30725.800	1.0	116898.220	2.0
116.0504	26.02	-1.77	113635.340	4.0	199804.810	4.0
116.0513	6.00	-3.75	16.400	1.0	86185.200	2.0
116.0545	26.02	-1.85	113739.620	6.0	199906.030	6.0
116.0560	9.02	-1.83	355981.900	1.5	442147.190	2.5
116.0594	26.01	-7.66	384.770	3.5	86547.550	2.5
116.0621	21.02	-4.89	62102.200	5	148263.000	1.5
116.0630	29.01	-5.58	26264.400	2.0	112424.500	2.0
116.0722	26.02	-4.30	136612.780	4.0	222766.040	3.0
116.0723	26.02	-3.59	136612.780	4.0	222765.970	4.0
116.0752	26.02	-4.54	84159.550	4.0	170310.600	3.0
116.0761	23.02	-0.5	16810.900	4.5	102961.280	3.5
116.0774	28.01	-1.64	51557.850	3.5	137707.260	3.5
116.0779	7.00	-3.89	28838.920	5	114988.000	5
116.0779	7.00	-3.63	28838.920	5	114988.000	1.5
116.0781	28.01	-1.53	51557.850	3.5	137706.710	2.5
116.0784	7.00	-4.19	28839.306	1.5	114988.000	5
116.0784	7.00	-3.69	28839.306	1.5	114988.000	1.5
116.0784	7.00	-2.83	28839.306	1.5	114988.000	2.5
116.0837	26.02	-3.29	113739.620	6.0	199884.390	5.0
116.0877	6.00	-3.39	43.400	2.0	86185.200	2.0
116.0894	26.02	-3.94	144116.640	3.0	230257.150	2.0
116.0935	26.02	-3.59	136612.780	4.0	222750.230	3.0
116.0937	7.00	-5.59	0.000	1.5	86137.320	5
116.0976	27.02	-3.88	24236.800	1.5	110371.200	2.5
116.1009	26.02	-4.22	136612.780	4.0	222744.790	5.0
116.1065	26.02	-2.98	113677.010	5.0	199804.810	4.0
116.1150	26.02	-3.83	136612.780	4.0	222734.330	4.0
116.1157	26.02	-4.54	137209.730	4.0	223330.710	3.0
116.1162	13.03	-1.51	681635.500	3.0	767756.100	2.0
116.1162	13.03	-1.51	681635.500	3.0	767756.100	2.0
116.1168	26.02	-3.24	50412.300	2.0	136532.450	2.0
116.1194	26.01	-4.59	7955.240	3.5	94073.460	3.5
116.1203	26.02	-1.17	113584.200	3.5	199701.820	3.0
116.1208	26.02	-4.00	30857.800	3.0	116975.050	2.0
116.1211	26.02	-4.11	137209.730	4.0	223326.760	4.0
116.1224	26.02	-4.46	35803.700	2.0	121919.740	3.0
116.1247	18.02	-2.79	157031.400	1.0	243145.760	2.0
116.1291	7.00	-3.29	28838.920	5	114950.000	5
116.1296	7.00	-3.59	28839.306	1.5	114950.000	5
116.1296	7.00	-2.86	28839.306	1.5	114950.000	1.5
116.1331	28.02	-3.47	75646.900	4.0	161755.000	3.0
116.1347	26.02	-3.74	144085.970	4.0	230192.860	3.0
116.1361	25.02	-4.04	131701.690	1.5	217807.570	1.5
116.1404	7.00	-3.41	28839.306	1.5	114942.000	2.5
116.1437	26.01	-7.19	667.640	2.5	86767.870	2.5
116.1467	26.01	-7.29	384.770	3.5	86482.750	3.5
116.1488	26.02	-1.87	113605.370	3.0	199701.820	3.0
116.1489	20.02	-3.04	277022.400	3.0	363118.750	3.0
116.1503	23.02	-3.84	15550.300	5	101645.610	5
116.1511	26.02	-1.08	79844.740	6.0	165939.470	5.0
116.1534	9.02	-4.48	395268.130	1.5	481361.170	1.5
116.1625	26.02	-4.44	136612.780	4.0	222699.090	5.0
116.1654	28.01	-4.81	25036.380	2.5	111120.540	1.5
116.1723	26.02	-2.61	79860.420	5.0	165939.470	5.0
116.1761	26.02	-4.84	144116.640	3.0	230192.860	3.0
116.1771	25.02	-4.03	132297.550	2.5	218373.000	1.5
116.1779	9.02	-3.58	395268.130	1.5	481343.010	5
116.1807	26.02	-3.31	136532.450	2.0	222605.240	3.0
116.1825	23.03	-2.10	151567.300	2.0	237638.800	2.0
116.1856	26.02	-2.75	49148.000	0.0	135217.170	1.0
116.1865	15.03	-1.23	233995.000	0.0	320063.500	1.0
116.1893	26.02	-3.18	113635.340	4.0	199701.820	3.0
116.1902	23.02	-2.72	15579.800	1.5	101645.610	5
116.1922	26.02	-2.67	116364.760	0.0	202429.040	1.0
116.1928	28.01	-2.97	32499.530	4.5	118563.390	3.5
116.2007	15.03	-1.53	233995.000	0.0	320053.000	1.0
116.2015	25.01	-3.26	0.000	3.0	86057.400	4.0
116.2020	23.02	-1.3	16977.600	5.5	103034.650	4.5
116.2070	8.03	-1.89	510744.900	2.5	56798.200	1.5
116.2080	26.02	-3.72	50412.300	2.0	136464.900	1.0
116.2100	7.00	-4.19	28838.920	5	114890.000	1.5
116.2102	26.02	-2.64	50184.900	2.0	136235.840	1.0
116.2106	7.00	-3.49	28839.306	1.5	114890.000	1.5
116.2128	28.01	-2.25	29070.930	1.5	115120.000	2.5
116.2129	26.02	-2.14	116380.070	1.0	202429.040	1.0
116.2244	26.02	-6.57	30857.800	3.0	116898.220	2.0
116.2288	28.01	-2.49	29070.930	1.5	115108.090	2.5
116.2344	26.01	-4.61	7955.240	3.5	93988.300	2.5
116.2347	15.02	-1.16	116873.600	1.5	202906.400	2.5
116.2453	9.02	-3.03	380250.520	2.5	466275.500	2.5
116.2500	15.02	-0.1	116884.900	2.5	202906.400	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
116.2500	15.02	-1.31	116884.900	2.5	202906.400	2.5	116.5799	28.01	-2.07	10115.660	2.5	95893.760	1.5
116.2512	26.02	-6.19	42896.900	3.0	128917.510	2.0	116.5826	26.02	-3.11	116380.070	1.0	202156.130	2.0
116.2585	26.02	-3.62	50184.900	2.0	136200.130	3.0	116.5827	9.02	-2.12	384493.060	1.5	470269.070	.5
116.2589	13.02	-1.76	115956.210	2.5	201971.160	2.5	116.5836	7.00	-3.10	19233.177	1.5	105008.520	2.5
116.2589	13.02	-4.46	115956.210	2.5	201971.160	3.5	116.5836	9.02	-3.10	356371.820	2.5	442147.190	2.5
116.2608	29.01	-3.59	21928.600	3.0	107942.100	4.0	116.5851	26.02	-3.23	138264.470	6.0	224038.730	5.0
116.2620	13.02	-4.61	115958.500	1.5	201971.160	2.5	116.5888	25.02	-4.61	132897.740	2.5	218669.260	1.5
116.2660	26.02	-2.43	116419.390	2.0	202429.040	1.0	116.5893	28.02	-4.02	71383.700	2.0	157154.900	2.0
116.2718	25.02	-4.04	132971.990	3.5	218977.340	3.5	116.5906	27.02	-4.31	20194.900	1.5	105965.100	2.5
116.2735	26.02	-4.19	138054.590	5.0	224058.700	4.0	116.5914	25.02	-3.87	132297.550	2.5	218067.190	2.5
116.2752	28.01	-1.37	8393.900	4.5	94396.740	5.5	116.5953	26.02	-4.21	137561.100	1.0	223327.870	2.0
116.2754	9.02	-4.10	380250.520	2.5	466253.240	1.5	116.5972	26.02	-3.77	73727.640	2.0	159493.000	3.0
116.2757	28.01	-2.34	9330.040	3.5	95332.530	2.5	116.6003	7.00	-4.13	19233.177	1.5	104996.240	1.5
116.2791	17.04	-4.00	0.000	.5	86000.000	.5	116.6054	25.01	-8.76	0.000	3.0	85759.300	4.0
116.2800	18.02	-3.51	156924.680	2.0	242923.960	1.0	116.6055	26.02	-2.88	30716.200	2.0	116475.440	3.0
116.2806	20.02	-3.16	277022.400	3.0	363021.270	2.0	116.6084	25.02	-4.62	133059.840	3.5	218816.970	2.5
116.2807	28.01	-3.38	29593.460	.5	115592.250	1.5	116.6107	26.02	-3.80	144501.740	2.0	230257.150	2.0
116.2813	26.02	-3.80	136612.780	4.0	222611.160	5.0	116.6137	30.02	-3.61	217073.800	2.0	302827.000	2.0
116.2815	23.02	-4.90	11513.800	.5	97512.000	1.5	116.6165	7.00	-4.51	19233.177	1.5	104984.340	.5
116.2885	26.02	-4.32	136612.780	4.0	222605.820	4.0	116.6178	10.01	-4.96	219648.440	1.5	305398.620	1.5
116.2922	10.01	-3.90	252798.480	.5	338788.760	.5	116.6188	28.01	-2.59	32499.530	4.5	118248.980	5.5
116.3005	26.02	-2.39	138054.590	5.0	224038.730	5.0	116.6228	26.02	-4.07	144501.740	2.0	230248.260	1.0
116.3056	26.02	-4.68	136793.820	2.0	222774.220	2.0	116.6256	23.02	-3.77	16330.500	1.5	102075.000	2.5
116.3099	26.02	-4.22	136797.050	3.0	222774.220	2.0	116.6269	28.01	-4.94	54262.630	3.5	140006.170	4.5
116.3122	9.02	-3.51	395385.660	2.5	481361.170	1.5	116.6285	23.02	-4.49	11769.700	2.5	97512.000	1.5
116.3166	26.02	-4.61	136793.820	2.0	222766.040	3.0	116.6296	16.01	-4.73	24571.600	1.5	110313.130	2.5
116.3195	7.00	-4.90	28838.920	.5	114809.000	.5	116.6305	29.02	-3.26	62065.000	3.5	147805.900	3.5
116.3201	7.00	-3.23	28839.306	1.5	114809.000	.5	116.6345	20.02	-1.86	277380.860	2.0	363118.750	3.0
116.3210	26.02	-3.94	136797.050	3.0	222766.040	3.0	116.6346	28.01	-2.31	53365.170	4.5	139103.050	5.5
116.3211	26.02	-4.76	136797.050	3.0	222765.970	4.0	116.6361	26.02	-1.85	116419.390	2.0	202156.130	2.0
116.3265	23.02	-4.86	341.500	3.5	86306.400	4.5	116.6378	27.02	-7.66	17766.200	3.5	103501.700	3.5
116.3271	26.02	-4.82	136793.820	2.0	222758.280	2.0	116.6408	25.02	-3.78	132971.990	3.5	218705.250	2.5
116.3315	26.02	-4.84	136797.050	3.0	222758.280	2.0	116.6417	26.02	-4.44	50276.100	4.0	136008.740	3.0
116.3326	26.02	-5.36	30356.200	6.0	116316.630	5.0	116.6423	25.02	-4.83	132697.060	.5	218669.260	1.5
116.3326	25.01	-3.37	0.000	3.0	85960.410	3.0	116.6450	23.02	-4.98	145.500	2.5	58575.970	3.5
116.3392	26.02	-2.60	138103.120	4.0	224058.700	4.0	116.6550	20.02	-1.97	278621.010	1.0	364343.850	1.0
116.3487	26.02	-3.73	138103.120	4.0	224051.630	3.0	116.6554	23.02	-2.60	583.800	4.5	86306.400	4.5
116.3520	9.02	-3.38	380307.130	1.5	466253.240	1.5	116.6601	30.02	-2.96	214357.000	1.0	300076.100	2.0
116.3552	12.03	-3.91	596527.300	2.5	682471.000	1.5	116.6638	13.03	-4.54	681635.500	3.0	767351.900	3.0
116.3593	26.02	-3.50	84369.920	2.0	170310.600	3.0	116.6638	13.03	-4.54	681635.500	3.0	767351.900	3.0
116.3596	9.02	-2.65	380250.520	2.5	466190.970	3.5	116.6663	26.02	-2.81	50276.100	4.0	135990.620	4.0
116.3646	28.01	-1.65	10115.660	2.5	96052.480	2.5	116.6677	26.02	-2.77	50295.200	3.0	136008.740	3.0
116.3662	10.01	-3.47	138103.120	4.0	224038.730	5.0	116.6700	3.01	-1.20	494273.000	0.0	579984.837	0.0
116.3730	28.01	-1.78	23108.280	2.5	109038.840	1.5	116.6764	21.02	-4.65	62575.900	1.5	148283.000	2.5
116.3819	26.02	-2.94	50276.100	4.0	136200.130	3.0	116.6784	26.02	-3.77	50412.300	2.0	136117.940	2.0
116.3871	23.02	-4.62	11591.800	1.5	97512.000	1.5	116.6818	26.02	-3.73	30716.200	2.0	116419.390	2.0
116.3879	25.02	-3.70	133276.400	4.5	219195.950	4.5	116.6832	26.02	-2.75	49576.900	1.0	135279.040	2.0
116.3884	25.02	-4.50	132897.740	2.5	218816.970	2.5	116.6848	25.02	-4.51	133276.400	4.5	218977.340	3.5
116.3884	7.00	-1.61	19224.464	2.5	105143.680	2.5	116.6857	23.02	-1.95	16374.700	2.5	102075.000	2.5
116.3907	25.02	-4.08	133059.840	3.5	218977.340	3.5	116.6906	16.01	-4.13	24571.600	1.5	110268.330	2.5
116.3907	24.02	-2.19	25725.800	3.0	111643.300	4.0	116.6913	30.02	-1.44	214357.000	1.0	300053.200	2.0
116.3963	8.03	-3.04	510744.900	2.5	596658.300	2.5	116.6924	26.02	-4.41	50295.200	3.0	135990.620	4.0
116.4002	7.00	-3.64	19233.177	1.5	105143.680	2.5	116.6948	26.02	-3.69	30725.800	1.0	116419.390	2.0
116.4002	9.02	-2.45	384358.540	.5	470269.070	.5	116.6982	26.02	-4.42	144501.740	2.0	230192.860	3.0
116.4021	26.02	-3.69	50276.100	4.0	136185.170	5.0	116.7029	28.01	-2.19	9330.040	3.5	95017.710	4.5
116.4040	26.02	-4.15	137423.000	3.0	223330.710	3.0	116.7037	21.02	-1.61	62575.900	1.5	148263.000	1.5
116.4048	9.02	-2.09	356371.820	2.5	442278.930	2.5	116.7041	26.02	-2.50	57221.700	4.0	142908.480	5.0
116.4073	26.01	-5.34	862.630	1.5	86767.870	2.5	116.7067	26.01	-7.17	862.630	1.5	86547.550	2.5
116.4074	28.02	-4.17	71067.000	3.0	156972.200	3.0	116.7113	26.01	-4.38	8391.920	2.5	94073.460	3.5
116.4078	26.02	-4.59	50295.200	3.0	136200.130	3.0	116.7113	26.01	-6.22	862.630	1.5	86544.140	1.5
116.4093	26.02	-3.40	137423.000	3.0	223326.760	4.0	116.7119	8.03	-1.74	510977.200	3.5	596658.300	2.5
116.4135	13.03	-1.77	681635.500	3.0	767536.200	2.0	116.7124	26.02	-2.18	116475.440	3.0	202156.130	2.0
116.4135	13.03	-1.77	681635.500	3.0	767536.200	2.0	116.7148	17.00	-0.09	0.000	1.5	85678.940	.5
116.4207	7.00	-2.68	19224.464	2.5	105119.850	1.5	116.7219	25.01	-7.19	0.000	3.0	85673.720	4.0
116.4208	25.01	-3.52	0.000	3.0	85895.270	2.0	116.7223	27.02	-5.69	20918.500	.5	106591.900	1.5
116.4245	18.02	-2.92	157031.400	1.0	242923.960	1.0	116.7347	26.01	-7.14	1872.600	4.5	87536.900	3.5
116.4279	28.01	-4.80	8393.900	4.5	94283.940	4.5	116.7353	26.02	-4.06	30716.200	2.0	116380.070	1.0
116.4293	17.04	-3.41	1492.000	1.5	87381.000	2.5	116.7449	7.00	-4.76	19224.464	2.5	104881.320	3.5
116.4321	8.03	.75	510744.900	2.5	596631.900	3.5	116.7478	8.03	-4.68	510977.200	3.5	596631.900	3.5
116.4323	28.02	-3.68	54657.900	4.0	140544.700	3.0	116.7484	26.02	-5.93	30725.800	1.0	116380.070	1.0
116.4325	7.00	-1.88	19233.177	1.5	105119.850	1.5	116.7503	7.00	-4.37	19233.177	1.5	104886.070	.5
116.4352	26.02	-7.21	34812.400	0.0	120697.100	1.0	116.7516	16.01	-4.47	24524.900	.5	110176.830	1.5
116.4370	25.02	-3.98	132297.550	2.5	218180.900	1.5	116.7519	30.02	-1.41	214357.000	1.0	300008.700	1.0
116.4417	26.01	-8.72	667.640	2.5	86547.550	2.5	116.7534	23.02	-1.92	98825.190	3.5	184475.800	4.5
116.4463	26.01	-6.84	667.640	2.5	86544.140	1.5	116.7553	24.02	-3.29	25725.800	3.0	111375.000	3.0
116.4521	25.03	-4.54	112013.300	3.0	197885.500	3.0	116.7653	26.02	-4.93	83138.230	5.0	168780.100	5.0
116.4537	20.02	-3.95	277022.400	3.0	362893.470	2.0	116.7673	20.02	-2.30	277380.860	2.0	363021.270	2.0
116.4541	26.02	-3.25	138187.930	3.0	224058.700	4.0							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
116.8536	7.00	-4.81	19233.177	1.5	104810.330	2.5	117.1657	28.01	-4.60	32523.540	3.5	117872.780	2.5
116.8555	26.02	-1.16	116316.630	5.0	201892.440	5.0	117.1720	27.02	-5.82	23058.800	2.5	108403.400	1.5
116.8673	26.01	-5.64	977.030	.5	86544.140	1.5	117.1742	26.02	-4.29	137423.000	3.0	222766.040	3.0
116.8729	24.02	-1.10	43286.400	4.0	128849.400	4.0	117.1743	26.02	-3.42	137423.000	3.0	222765.970	4.0
116.8730	26.02	-2.39	116467.410	4.0	202030.380	3.0	117.1746	7.00	-2.85	28839.306	1.5	114182.000	2.5
116.8749	26.02	-4.08	30857.800	3.0	116419.390	2.0	117.1776	25.02	-4.80	133059.840	3.5	218400.400	3.5
116.8821	26.02	-4.84	137209.730	4.0	222766.040	3.0	117.1839	25.02	-3.66	132971.990	3.5	218307.980	2.5
116.8822	26.02	-4.25	137209.730	4.0	222765.970	4.0	117.1867	9.02	-4.39	355981.900	1.5	441315.800	.5
116.8840	26.02	-1.70	116475.440	3.0	202030.380	3.0	117.1959	26.02	-3.31	137423.000	3.0	222750.230	3.0
116.8911	11.02	-4.58	412201.500	.5	497751.200	.5	117.2002	7.00	-3.04	28838.920	.5	114163.000	1.5
116.8966	26.02	-4.36	137763.700	5.0	223309.370	5.0	117.2007	7.00	-2.80	28839.306	1.5	114163.000	1.5
116.9023	25.03	-4.97	112013.300	3.0	197554.800	2.0	117.2021	28.01	-4.33	51557.850	3.5	136880.560	4.5
116.9037	26.02	-4.95	137209.730	4.0	222750.230	3.0	117.2043	7.00	-3.58	28838.920	.5	114160.000	1.5
116.9085	28.01	-3.86	25036.380	2.5	110573.360	2.5	117.2049	7.00	-2.67	28839.306	1.5	114160.000	2.5
116.9111	26.02	-3.96	137209.730	4.0	222744.790	5.0	117.2049	7.00	-3.31	28839.306	1.5	114160.000	1.5
116.9120	25.02	-4.37	132971.990	3.5	218506.390	3.5	117.2054	25.02	-3.93	133276.400	4.5	218596.690	5.5
116.9122	23.02	-2.27	341.500	3.5	58575.740	3.5	117.2116	25.02	-4.32	133059.840	3.5	218375.610	4.5
116.9147	26.01	-4.34	7955.240	3.5	93487.710	3.5	117.2125	23.02	-3.31	16330.500	1.5	101645.610	.5
116.9169	26.02	-2.62	116898.220	2.0	202429.040	1.0	117.2154	28.02	-3.68	71841.900	1.0	157154.900	2.0
116.9187	26.01	-3.08	7955.240	3.5	93484.750	4.5	117.2177	26.02	-3.73	137423.000	3.0	222734.330	4.0
116.9212	24.02	-1.94	43321.700	3.0	128849.400	4.0	117.2225	26.01	-4.84	8680.470	1.5	93988.300	2.5
116.9230	26.01	-6.83	862.630	1.5	86388.980	.5	117.2234	7.00	-3.72	28839.306	1.5	114146.525	2.5
116.9236	28.02	-4.09	54657.900	4.0	140183.800	4.0	117.2245	16.01	-5.37	24524.900	.5	109831.280	1.5
116.9254	26.02	-3.92	137209.730	4.0	222734.330	4.0	117.2270	26.02	-4.54	137527.920	4.0	222832.480	5.0
116.9262	23.02	-1.12	0.000	1.5	85524.000	2.5	117.2404	9.02	-3.14	355981.900	1.5	441276.720	2.5
116.9308	26.02	-4.07	50184.900	2.0	135705.570	3.0	117.2425	26.02	-2.27	50412.300	2.0	125705.570	3.0
116.9327	29.02	-3.64	63143.600	2.5	148662.900	2.5	117.2444	23.02	-4.91	583.800	4.5	85875.740	3.5
116.9431	26.02	-2.69	49576.900	1.0	135088.600	0.0	117.2451	8.02	-1.30	294001.600	2.0	379293.000	2.0
116.9452	28.02	-4.51	55406.100	3.0	140916.200	2.0	117.2456	7.00	-3.09	28838.920	.5	114130.000	.5
116.9454	25.02	-4.74	132297.550	2.5	217807.570	1.5	117.2461	7.00	-3.39	28839.306	1.5	114130.000	.5
116.9476	26.02	-4.80	137763.700	5.0	223272.060	6.0	117.2525	26.02	-7.12	30356.200	6.0	115642.230	7.0
116.9648	24.02	-2.55	43286.400	4.0	128782.200	3.0	117.2547	26.02	-2.60	115110.920	4.0	200395.330	5.0
116.9694	7.00	-2.37	19224.464	2.5	104716.920	3.5	117.2601	28.01	-3.29	54176.260	.5	139456.750	1.5
116.9707	26.02	-2.06	116937.570	1.0	202429.040	1.0	117.2631	26.02	-2.50	50276.100	4.0	135554.610	4.0
116.9736	26.02	-4.86	137209.730	4.0	222699.090	5.0	117.2662	28.01	-2.07	52738.450	2.5	138014.530	2.5
116.9736	26.02	-3.56	114948.550	3.0	200437.940	2.0	117.2664	28.01	-2.25	29593.460	.5	114869.350	1.5
116.9890	24.02	-2.02	43304.100	2.0	128782.200	3.0	117.2699	26.02	-2.88	115110.920	4.0	200384.280	3.0
116.9911	25.03	-4.41	112408.900	4.0	197885.500	3.0	117.2752	9.02	-4.73	357479.350	1.5	442748.850	2.5
116.9918	25.01	-4.45	31661.720	3.0	117137.800	4.0	117.2887	16.01	-5.28	24571.600	1.5	109831.280	1.5
116.9961	28.01	-2.31	32499.530	4.5	117972.470	3.5	117.2894	26.02	-2.32	50295.200	3.0	135554.610	4.0
117.0005	28.02	-3.80	71383.700	2.0	156853.400	3.0	117.2912	26.02	-2.30	116898.220	2.0	202156.130	2.0
117.0031	26.01	-5.23	1872.600	4.5	87340.400	5.5	117.2955	26.02	-4.33	138054.590	5.0	223309.370	5.0
117.0124	10.01	-4.38	219947.460	.5	305408.510	.5	117.2983	30.02	-2.40	217655.800	3.0	302908.500	4.0
117.0131	24.02	-1.26	43321.700	3.0	128782.200	3.0	117.2993	25.04	-2.96	177314.000	2.5	262566.000	3.5
117.0139	30.02	.65	192763.700	3.0	278223.600	3.0	117.3105	25.02	-4.31	132937.060	.5	218180.900	1.5
117.0148	25.02	-3.57	133736.640	5.5	219195.950	4.5	117.3122	28.01	-2.29	23796.180	1.5	109038.840	1.5
117.0149	26.02	-2.48	50276.100	4.0	135735.310	5.0	117.3264	26.02	-4.12	137544.600	2.0	222776.890	1.0
117.0158	7.00	-3.50	19224.464	2.5	104683.030	2.5	117.3265	7.00	-4.04	28838.920	.5	114071.153	1.5
117.0169	28.01	-2.13	10115.660	2.5	95573.390	3.5	117.3270	7.00	-3.34	28839.306	1.5	114071.153	1.5
117.0202	23.02	-2.91	16330.500	1.5	101785.810	1.5	117.3290	8.02	-2.44	294001.600	2.0	379232.000	1.0
117.0220	26.02	-4.75	116975.050	2.0	202429.040	1.0	117.3296	25.02	-4.56	133276.400	4.5	218506.390	3.5
117.0246	26.02	-1.44	116467.410	4.0	201919.530	4.0	117.3298	28.01	-1.09	10663.890	1.5	95893.760	1.5
117.0259	7.00	-4.30	28839.306	1.5	114290.500	2.5	117.3301	26.02	-3.61	137544.600	2.0	222774.220	2.0
117.0259	10.01	-4.37	219947.460	.5	305398.620	1.5	117.3303	28.01	-4.07	54262.630	3.5	139492.100	2.5
117.0277	7.00	-2.52	19233.177	1.5	104683.030	2.5	117.3373	26.02	-4.32	144968.500	4.0	230192.860	3.0
117.0278	24.02	-1.36	43504.100	2.0	128753.900	2.0	117.3383	26.02	-4.38	138103.120	4.0	223326.760	4.0
117.0322	25.02	-4.36	133059.840	3.5	218506.390	3.5	117.3414	26.02	-3.66	137544.600	2.0	222766.040	3.0
117.0356	26.02	-3.04	116475.440	3.0	201919.530	4.0	117.3453	26.02	-2.01	116937.570	1.0	202156.130	2.0
117.0407	26.01	-4.97	7955.240	3.5	93395.600	2.5	117.3454	26.02	-3.97	145038.610	3.0	230257.150	2.0
117.0417	7.00	-3.07	19224.464	2.5	104664.100	1.5	117.3469	25.02	-4.84	132897.740	2.5	218115.150	3.5
117.0468	25.02	-4.43	132937.060	.5	218373.000	1.5	117.3477	28.01	-1.03	10115.660	2.5	95332.530	2.5
117.0470	26.02	-2.93	114948.550	3.0	200384.280	3.0	117.3491	26.02	-4.16	137561.100	1.0	222776.890	1.0
117.0485	7.00	-2.81	28839.306	1.5	114274.000	2.5	117.3507	26.02	-2.17	115110.920	4.0	200325.560	4.0
117.0519	24.02	-2.43	43321.700	3.0	128753.900	2.0	117.3516	30.02	-3.02	217655.800	3.0	302869.800	3.0
117.0536	7.00	-4.03	19233.177	1.5	104664.100	1.5	117.3520	26.02	-4.61	137544.600	2.0	222758.280	2.0
117.0546	26.02	-6.06	30886.400	4.0	116316.630	5.0	117.3528	26.02	-4.46	137561.100	1.0	222774.220	2.0
117.0556	26.02	-1.73	50276.100	4.0	135705.570	3.0	117.3590	28.01	-4.77	51557.850	3.5	136766.490	2.5
117.0571	25.02	-3.86	132971.990	3.5	218400.400	3.5	117.3617	25.02	-5.90	26851.100	4.5	112057.800	3.5
117.0580	8.02	-1.97	293865.260	1.0	379293.000	2.0	117.3623	26.02	-4.50	138103.120	4.0	223309.370	5.0
117.0617	26.02	-2.20	116467.410	4.0	201892.440	5.0	117.3631	26.02	-3.85	137544.600	2.0	222750.230	3.0
117.0675	7.00	-2.74	19233.177	1.5	104654.000	.5	117.3639	26.02	-6.19	35803.700	2.0	121008.780	3.0
117.0685	7.00	-2.67	28838.920	.5	114259.000	1.5	117.3709	25.02	-8.21	26857.800	2.5	112057.800	3.5
117.0690	7.00	-2.73	28839.306	1.5	114259.000	1.5	117.3714	23.03	-2.23	151567.300	2.0	236766.900	3.0
117.0796	26.01	-5.84	977.030	.5	86388.980	.5	117.3729	28.01	-3.68	53365.170	4.5	138563.710	3.5
117.0800	23.02	-3.60	98825.190	3.5	184236.900	4.5	117.3738	25.02	-6.93	26859.900	3.5	112057.800	3.5
117.0808	23.02	-4.09	16374.700	2.5	101785.810	1.5	117.3748	26.02	-4.26	137561.100	1.0	222758.280	2.0
117.0818	26.02	-3.74	50295.200	3.0	135705.570	3.0	117.3878	7.00	-3.70	28838.920	.5	114026.654	.5
117.0820	25.02	-4.79	132897.740	2.5	21								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
117.5088	11.05	-.17	1040223.000	3.0	1125323.000	4.0	117.9351	25.02	-4.12	133804.280	6.5	218596.690	5.5
117.5099	25.02	-3.93	133276.400	4.5	218375.610	4.5	117.9354	13.01	-2.56	59849.700	1.0	144641.900	0.0
117.5146	26.01	-3.36	8391.920	2.5	93487.710	3.5	117.9366	26.02	-3.90	50184.900	2.0	134976.220	3.0
117.5210	26.02	-3.67	57221.700	4.0	142312.900	3.0	117.9429	9.02	-2.47	356371.820	2.5	441158.600	1.5
117.5250	6.02	-.58	52367.000	0.0	137455.270	0.0	117.9468	25.02	-2.33	29207.300	.5	113991.310	.5
117.5260	26.02	-3.02	117068.560	3.0	202156.130	0.0	117.9565	25.02	-3.97	26824.400	5.5	111601.450	5.5
117.5393	26.02	-4.76	137527.920	4.0	222605.820	4.0	117.9571	29.02	-4.00	63886.300	1.5	148662.900	2.5
117.5398	25.02	-4.61	132897.740	2.5	217975.300	2.5	117.9590	8.02	-3.20	365515.760	0.0	450291.000	1.0
117.5484	8.02	-2.32	294221.650	3.0	379293.000	2.0	117.9614	26.02	-1.58	115110.920	4.0	199884.390	5.0
117.5488	26.02	-4.90	137763.700	5.0	222834.170	6.0	117.9686	27.02	-3.72	70934.100	2.5	155702.400	1.5
117.5570	6.02	-.71	52390.000	0.0	137455.170	0.0	117.9692	30.02	-1.38	218040.500	3.0	302808.400	4.0
117.5667	27.02	-4.51	55729.200	3.5	140787.300	2.5	117.9706	30.02	-2.84	218041.500	4.0	302808.400	4.0
117.5678	26.01	-1.36	1872.600	4.5	86929.920	3.5	117.9747	26.01	-7.66	2837.940	2.5	87601.900	1.5
117.5700	6.02	-.01	52447.000	0.0	137502.711	0.0	117.9757	27.02	-2.92	55729.200	3.5	140492.400	4.5
117.5705	26.02	-3.91	116975.050	2.0	202030.380	3.0	117.9763	30.02	-1.27	218041.500	4.0	302804.300	5.0
117.5706	25.02	-4.38	133059.840	3.5	218115.150	2.5	117.9770	27.01	-6.45	950.300	3.0	85712.600	2.0
117.5827	25.02	-1.43	29241.400	1.5	114287.910	3.5	117.9831	25.01	-7.89	9472.970	2.0	94230.900	2.0
117.5834	17.04	-4.07	1492.000	1.5	86538.000	1.5	117.9851	25.02	-1.24	32307.300	3.5	117063.740	4.5
117.5858	27.01	-5.69	0.000	4.0	85044.300	3.0	117.9870	23.03	-.80	151567.300	2.0	236322.400	2.0
117.5899	25.02	-5.82	29167.700	2.5	114209.010	3.5	117.9895	26.02	-2.54	114948.550	3.0	197701.820	3.0
117.5907	26.01	-5.87	2430.080	3.5	87470.800	4.5	117.9900	26.02	-2.59	50184.900	2.0	134937.840	2.0
117.5913	26.02	-2.66	50276.100	4.0	135316.420	5.0	117.9936	25.02	-5.25	26851.100	4.5	111601.450	5.0
117.5943	28.01	-2.50	52738.450	2.5	137776.550	3.5	117.9942	25.02	-1.66	29241.400	1.5	113991.310	.5
117.5970	6.02	-.58	52390.000	0.0	137426.183	0.0	117.9942	11.02	-3.57	444748.100	1.5	529498.000	1.5
117.5977	26.02	-3.35	115289.910	5.0	200325.560	4.0	118.0075	26.01	-3.52	7955.240	3.5	92695.620	2.5
117.5978	16.01	-5.64	24524.900	.5	109560.500	.5	118.0075	8.02	-2.85	365550.600	1.0	450291.000	1.0
117.5991	9.02	-2.41	356371.820	2.5	441406.460	3.5	118.0166	26.01	-6.90	2837.940	2.5	87571.800	2.5
117.6024	26.02	-3.16	50184.900	2.0	135217.170	1.0	118.0209	28.01	-3.37	51557.850	3.5	136288.600	2.5
117.6035	28.01	-3.20	51557.850	3.5	136589.350	3.5	118.0261	10.03	-4.52	524391.000	.5	609118.000	1.5
117.6044	28.01	-4.36	51045.460	4.5	136076.260	4.5	118.0271	28.01	-1.33	13550.390	3.5	98276.700	4.5
117.6075	25.02	-4.34	133086.570	4.5	218115.150	3.5	118.0337	23.03	-.83	151427.000	1.0	236148.600	1.0
117.6086	25.02	-4.67	133949.540	4.5	218977.340	3.5	118.0402	11.02	-3.49	444748.100	1.5	529465.000	2.5
117.6114	25.02	-.70	26857.800	2.5	111883.600	2.5	118.0427	26.01	-3.81	8680.470	1.5	93395.600	2.5
117.6143	25.02	-6.32	26859.900	3.5	111883.600	2.5	118.0509	25.01	-8.91	9472.970	2.0	94182.200	3.0
117.6160	26.02	-6.76	35803.700	2.0	120826.170	2.0	118.0580	24.02	-3.72	17395.500	5.0	102099.600	4.0
117.6165	26.02	-4.60	30088.840	3.0	115110.920	4.0	118.0582	25.04	-1.77	177862.000	3.5	262566.000	3.5
117.6276	9.02	-4.46	356371.820	2.5	441385.880	1.5	118.0588	25.02	-3.93	110711.620	3.5	195415.200	4.5
117.6280	26.02	-4.60	115642.230	7.0	200656.020	6.0	118.0606	26.02	-3.85	82382.870	3.0	167085.120	3.0
117.6339	26.02	-4.95	77075.300	1.0	162084.800	2.0	118.0636	26.02	-2.94	50276.100	4.0	134976.220	3.0
117.6350	6.02	-.49	52447.000	0.0	137455.713	0.0	118.0645	23.03	-.80	151449.100	0.0	236148.600	1.0
117.6366	26.02	-4.49	138264.470	6.0	223272.060	6.0	118.0652	26.01	-6.63	2837.940	2.5	87536.900	3.5
117.6369	25.02	-4.05	133059.840	3.5	218067.190	2.5	118.0723	26.02	-2.01	115110.920	4.0	199804.810	4.0
117.6420	26.01	-3.60	8391.920	2.5	93395.600	2.5	118.0782	26.02	-4.17	73727.640	2.0	158417.310	2.0
117.6425	25.02	-4.92	132971.990	3.5	217975.300	2.5	118.0783	9.01	-3.39	182864.400	1.0	267553.950	1.0
117.6439	26.02	-2.65	73727.640	2.0	158729.890	3.0	118.0791	9.02	-1.76	380250.520	2.5	464939.500	2.5
117.6510	7.00	-1.24	19224.464	2.5	104221.600	1.5	118.0798	26.02	-2.34	49576.900	1.0	134265.420	2.0
117.6552	27.02	-5.30	23058.800	2.5	108052.900	2.5	118.0827	8.02	-3.33	365550.600	1.0	450237.000	2.0
117.6624	16.01	-4.97	24571.600	1.5	109560.500	.5	118.0832	9.01	-3.17	182864.400	1.0	267550.460	2.0
117.6631	7.00	-2.35	19233.177	1.5	104221.600	1.5	118.0853	26.02	-2.95	50412.300	2.0	135096.840	3.0
117.6646	28.02	-4.24	61339.200	4.0	146326.500	5.0	118.0902	26.02	-2.58	50295.200	3.0	134976.220	3.0
117.6694	26.02	-2.70	50295.200	3.0	135279.040	2.0	118.0998	26.02	-2.52	82410.940	2.0	167085.120	3.0
117.6715	26.02	-4.62	77102.430	2.0	162084.800	2.0	118.1014	11.02	-4.25	444825.000	2.5	529498.000	1.5
117.6852	26.02	-3.23	49576.900	1.0	134549.380	1.0	118.1015	26.02	-7.08	40999.870	2.0	125672.830	2.0
117.6902	28.01	-3.58	52738.450	2.5	137707.260	3.5	118.1030	8.02	-2.96	365619.120	2.0	450291.000	1.0
117.6966	28.02	-4.71	55952.000	2.0	140916.200	2.0	118.1039	9.02	-.52	380250.520	2.5	464921.740	3.5
117.6974	26.02	-2.93	50276.100	4.0	135239.740	4.0	118.1075	28.01	-1.59	10663.890	1.5	95332.530	2.5
117.6999	26.02	-2.93	117068.560	3.0	202030.380	3.0	118.1086	9.02	-1.30	357479.350	1.5	442147.190	2.5
117.7005	28.01	-1.84	51557.850	3.5	136519.280	4.5	118.1099	13.03	-1.28	682869.300	1.0	767536.200	2.0
117.7109	28.01	-1.41	9330.040	3.5	94283.940	4.5	118.1099	13.03	-1.28	682869.300	1.0	767536.200	2.0
117.7155	26.02	-4.62	137763.700	5.0	222714.300	6.0	118.1156	26.02	-4.50	138103.120	4.0	222765.970	4.0
117.7287	28.01	-3.23	53634.620	1.5	138575.690	2.5	118.1163	29.02	-4.14	63143.600	2.5	147805.900	3.5
117.7348	26.01	-4.45	8391.920	2.5	93328.600	1.5	118.1197	27.02	-4.99	46438.300	4.5	131098.200	4.5
117.7366	26.02	-4.40	137763.700	5.0	222699.090	5.0	118.1199	26.02	-3.96	138054.590	5.0	222714.300	6.0
117.7389	26.02	-5.75	30356.200	6.0	115289.910	5.0	118.1321	10.01	-2.91	224087.020	1.5	308738.030	1.5
117.7433	13.01	-2.92	59849.700	1.0	144780.200	2.0	118.1335	24.03	-2.33	174854.000	3.5	259504.000	4.5
117.7478	25.02	-1.47	29167.700	2.5	114094.970	1.5	118.1361	26.01	-5.00	8680.470	1.5	93328.600	1.5
117.7564	26.02	-3.60	115474.250	6.0	200395.330	5.0	118.1367	26.01	-5.39	7955.240	3.5	92602.940	3.5
117.7579	25.02	-4.13	133455.640	5.5	218375.610	4.5	118.1375	26.02	-4.83	138103.120	4.0	222750.230	3.0
117.7596	25.02	-7.11	26857.800	2.5	111776.600	1.5	118.1375	25.02	-4.53	133949.540	4.5	218596.690	5.5
117.7632	27.02	-3.41	55729.200	3.5	140645.400	3.5	118.1396	29.02	-2.74	68963.600	2.5	153609.200	3.5
117.7642	25.02	-4.12	133059.840	3.5	217975.300	2.5	118.1412	26.02	-3.75	138054.590	5.0	222699.090	5.0
117.7675	30.02	-.92	190341.300	4.0	275254.400	5.0	118.1424	28.01	-2.61	51557.850	3.5	136201.460	3.5
117.7691	26.02	-3.68	50184.900	2.0	135096.840	3.0	118.1438	26.02	-3.93	50295.200	3.0	134937.840	2.0
117.7695	7.00	-1.65	19233.177	1.5	104144.790	.5	118.1451	26.02	-4.87	138103.120	4.0	222744.790	5.0
117.7720	25.02	-4.61	132897.740	2.5	217807.570	1.5	118.1474	11.02	-3.11	444825.000	2.5	529465.000	2.5
117.7788	9.02	-4.48	356371.820	2.5	441276.720	2.5	118.1489	25.02	-3.73	133736.640	5.0	218375.610	4.5
117.7920	23.03	-.50	151427.000	1.0	236322.400	2.0	118.1502	26.02	-5.38	40999.870	2.0	125637.980	3.0
117.7948	26.02	-6.03	35803.										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
118.2742	26.02	-4.21	139509.440	5.0	224058.700	4.0	118.6799	25.02	-6.40	26851.100	4.5	111111.390	4.5
118.2761	26.02	-4.45	138054.590	5.0	222602.500	6.0	118.6827	28.01	-2.70	53496.490	5.5	137754.780	5.5
118.2762	8.02	-3.66	365619.120	2.0	450167.000	3.0	118.6840	28.01	-2.29	53496.490	5.5	137753.870	4.5
118.2788	28.01	-3.17	54557.050	4.5	139103.050	5.5	118.6882	26.02	-2.79	73727.640	2.0	157982.000	3.0
118.2811	25.02	-1.83	32307.300	3.5	116851.690	3.5	118.6890	26.02	-3.32	50295.200	3.0	134549.000	3.0
118.2911	27.01	-7.63	1597.200	2.0	86134.400	1.0	118.6900	26.02	-4.08	30857.800	3.0	115110.920	4.0
118.2948	23.02	-3.37	99941.200	3.5	184475.800	4.5	118.6911	10.02	-4.24	352662.050	1.0	436914.390	2.0
118.3020	26.02	-1.76	115474.250	6.0	200003.700	7.0	118.6916	9.01	-2.99	202449.350	1.0	286701.280	2.0
118.3022	26.02	-4.82	139509.440	5.0	224038.730	5.0	118.6923	25.02	-6.32	26859.900	3.5	111111.390	4.5
118.3074	26.02	-6.49	50412.300	2.0	134937.840	2.0	118.6935	28.01	-1.91	24788.200	1.5	109038.840	1.5
118.3110	25.04	-2.82	176937.000	1.5	261460.000	2.5	118.6993	28.01	-1.64	53496.490	5.5	137742.950	5.5
118.3124	9.02	-2.17	360435.080	1.5	444957.110	1.5	118.7016	26.02	-3.76	57221.700	4.0	141466.530	3.0
118.3182	8.02	-2.53	365719.160	3.0	450237.000	2.0	118.7065	9.02	-4.22	380250.520	2.5	464491.890	3.5
118.3184	26.01	-8.49	3117.480	1.5	87635.200	.5	118.7076	9.01	-2.77	202460.690	2.0	286701.280	2.0
118.3223	26.02	-3.33	115289.910	5.0	199804.810	4.0	118.7102	28.01	-1.15	53496.490	5.5	137735.220	6.5
118.3278	7.00	-3.76	19224.464	2.5	105735.450	2.5	118.7110	27.02	-5.53	23058.800	2.5	107297.000	1.5
118.3308	25.02	-1.11	29167.700	2.5	113676.530	2.5	118.7192	26.02	-3.78	30716.200	2.0	114948.550	3.0
118.3313	26.02	-3.36	117521.910	4.0	202030.380	3.0	118.7299	23.02	-1.30	15579.800	1.5	99804.570	2.5
118.3319	26.02	-4.31	138103.120	4.0	222611.160	5.0	118.7303	26.02	-5.51	30886.400	4.0	115110.920	4.0
118.3320	17.04	-4.21	1492.000	1.5	86000.000	.5	118.7304	26.02	-4.88	139827.170	4.0	224051.630	3.0
118.3332	26.02	-2.47	82494.880	1.0	167002.000	2.0	118.7305	20.02	-1.74	281139.550	1.0	365363.880	1.0
118.3394	26.02	-4.93	138103.120	4.0	222605.820	4.0	118.7334	28.01	-3.45	52738.450	2.5	136960.750	2.5
118.3400	7.00	-4.91	19233.177	1.5	103735.450	2.5	118.7347	28.01	-2.83	52738.450	2.5	136959.860	2.5
118.3434	26.01	-2.09	2430.080	3.5	86929.920	3.5	118.7352	9.01	-2.62	202480.260	3.0	286701.280	2.0
118.3462	28.01	-3.30	52738.450	2.5	137236.280	3.5	118.7358	9.02	-3.69	355981.900	1.5	440202.480	2.5
118.3480	10.01	-2.86	254292.190	.5	338788.760	.5	118.7413	26.01	-7.72	7955.240	3.5	92171.950	4.5
118.3650	26.01	-7.78	3117.480	1.5	87601.900	1.5	118.7485	26.02	-3.31	139827.170	4.0	224038.730	5.0
118.3666	22.03	-4.54	127912.500	.5	212395.800	.5	118.7493	26.01	-4.69	8391.920	2.5	92602.940	3.5
118.3686	26.01	-4.06	8846.760	.5	93328.600	1.5	118.7607	28.01	-1.97	24835.930	.5	109038.840	1.5
118.3802	28.01	-3.49	51557.850	3.5	136031.430	2.5	118.7661	15.03	-2.27	105189.900	1.0	189389.000	2.0
118.3805	28.01	-3.60	55018.710	2.5	139492.100	2.5	118.7661	15.03	-4.50	105189.900	1.0	189389.000	1.0
118.3817	24.02	-3.92	17272.800	4.0	101745.300	3.0	118.7671	28.01	-2.79	52738.450	2.5	136936.820	3.5
118.3825	26.01	-4.32	7955.240	3.5	92427.220	4.5	118.7698	25.02	-3.00	32383.700	2.5	116580.170	1.5
118.3834	27.02	-5.02	23058.800	2.5	107530.100	3.5	118.7712	25.02	-2.03	32384.700	1.5	116580.170	1.5
118.3880	25.02	-1.48	32183.700	2.5	116851.690	3.5	118.7727	23.02	-4.94	99804.570	2.5	183999.000	3.5
118.4072	26.01	-7.68	3117.480	1.5	87571.800	2.5	118.7754	26.02	-4.84	139846.180	6.0	224038.730	5.0
118.4121	25.02	-4.62	133949.540	4.5	218400.400	3.5	118.7821	18.03	-4.25	34856.200	.5	119044.000	.5
118.4163	8.02	-2.81	365719.160	3.0	450167.000	3.0	118.7939	9.02	-4.47	413143.880	3.5	497323.250	2.5
118.4235	7.00	-2.96	19224.464	2.5	103667.130	1.5	118.7950	9.02	-2.98	413143.880	3.5	497322.460	3.5
118.4245	10.03	-3.95	524676.000	1.5	609118.000	1.5	118.7951	26.02	-5.84	35803.700	2.0	119982.260	1.0
118.4245	10.03	-3.28	524676.000	1.5	609118.000	2.5	118.7951	25.02	-4.27	134638.390	1.5	218816.970	2.5
118.4300	28.01	-3.04	55018.710	2.5	139456.750	1.5	118.7985	25.02	-1.83	32404.000	.5	116580.170	1.5
118.4300	15.02	-4.65	100201.200	.5	184639.300	1.5	118.8053	13.03	-2.23	682869.300	1.0	767040.600	1.0
118.4341	25.02	-1.45	29241.400	1.5	113676.530	2.5	118.8053	13.03	-2.23	682869.300	1.0	767040.600	1.0
118.4358	7.00	-3.70	19233.177	1.5	103667.130	1.5	118.8120	27.02	-5.61	24236.800	1.5	108403.400	1.5
118.4388	26.02	-2.30	115474.250	6.0	199905.030	6.0	118.8125	27.02	-4.99	47415.400	2.5	131581.600	3.5
118.4438	24.02	-4.13	25725.800	3.0	110154.000	4.0	118.8134	25.02	-4.90	133949.540	4.5	218115.150	3.5
118.4438	28.01	-3.82	51557.850	3.5	135986.060	3.5	118.8188	26.01	-3.52	7955.240	3.5	92116.980	4.5
118.4463	26.02	-4.81	139625.170	4.0	224051.630	3.0	118.8194	26.02	-3.47	83138.230	5.0	167299.600	5.0
118.4511	28.01	-1.67	14995.570	2.5	99418.610	3.5	118.8201	28.01	-4.03	52738.450	2.5	136899.330	1.5
118.4561	28.01	-2.87	51557.850	3.5	135977.310	4.5	118.8253	25.01	-4.27	29869.110	2.0	114026.300	3.0
118.4583	26.02	-4.43	138187.930	3.0	222605.820	4.0	118.8257	28.01	-3.72	52738.450	2.5	136895.360	3.0
118.4591	28.01	-2.24	53365.170	4.5	137782.500	4.5	118.8274	25.01	-4.65	29869.110	2.0	114024.800	2.0
118.4644	26.02	-4.47	139625.170	4.0	224038.730	5.0	118.8292	25.01	-5.65	29869.110	2.0	114023.500	1.0
118.4649	20.02	-2.30	277380.860	2.0	361794.080	1.0	118.8330	10.02	-3.43	352692.930	2.0	436844.630	3.0
118.4674	28.01	-2.38	53365.170	4.5	137776.550	3.5	118.8366	26.02	-4.95	63486.780	4.0	147635.950	3.0
118.4692	26.02	-3.49	115474.250	6.0	199884.390	5.0	118.8411	25.04	-1.61	177314.000	2.5	261460.000	2.5
118.4718	26.02	-3.42	73849.100	1.0	158257.370	1.0	118.8505	25.01	-4.48	14325.860	4.0	98465.150	5.0
118.4785	26.02	-6.05	30886.400	4.0	115289.910	5.0	118.8517	25.01	-5.02	29889.310	3.0	114027.800	4.0
118.4803	28.01	-3.40	51557.850	3.5	135960.080	4.5	118.8519	25.01	-1.34	14325.860	4.0	98464.160	4.0
118.4805	15.03	-3.10	256602.700	1.0	341004.800	2.0	118.8534	25.01	-2.52	14325.860	4.0	98463.160	3.0
118.4830	20.02	-2.91	278621.010	1.0	363021.270	2.0	118.8537	26.02	-2.45	50412.300	2.0	134549.380	1.0
118.4868	26.02	-2.86	117521.910	4.0	201919.530	4.0	118.8538	25.01	-5.57	29889.310	3.0	114026.300	3.0
118.4897	25.01	-8.19	9472.970	2.0	93868.500	1.0	118.8542	26.02	-4.06	50412.300	2.0	134549.000	3.0
118.4980	28.01	-1.66	53365.170	4.5	137754.780	5.5	118.8559	25.01	-6.59	29889.310	3.0	114024.800	2.0
118.4984	7.00	-2.82	19233.177	1.5	103622.480	.5	118.8578	26.01	-4.41	7955.240	3.5	92089.410	3.5
118.4993	28.01	-1.77	53365.170	4.5	137753.870	4.5	118.8613	20.02	-7.78	277022.400	3.0	361154.070	2.0
118.5023	28.01	-3.02	51557.850	3.5	135944.400	3.5	118.8661	9.02	-3.19	413195.000	2.5	497323.250	2.5
118.5047	25.02	-3.10	32307.300	3.5	116692.140	2.5	118.8673	9.02	-3.53	413195.000	2.5	497322.460	3.5
118.5069	25.02	-4.62	134286.000	.5	218669.260	1.5	118.8751	17.00	-1.45	0.000	1.5	84121.872	1.5
118.5140	26.02	-4.75	139680.470	3.0	224058.700	4.0	118.8774	17.00	-4.35	0.000	1.5	84120.263	2.5
118.5146	28.01	-1.59	53365.170	4.5	137742.950	5.5	118.8814	26.01	-2.93	2430.080	3.5	86547.550	2.5
118.5187	26.01	-2.67	7955.240	3.5	92330.100	2.5	118.8833	6.00	-2.28	0.000	0.0	84116.090	1.0
118.5248	26.02	-1.61	117521.910	4.0	201892.440	5.0	118.8843	27.01	-7.37	1597.200	2.0	85712.600	2.0
118.5249	28.01	-3.05	32523.540	3.5	116893.980	2.5	118.8847	26.02	-3.86	82382.870	3.0	166498.000	3.0
118.5333	26.02	-3.41	50184.900	2.0	134549.380	1.0	118.8863	28.01	-4.58	52738.450	2.5	136852.440	1.5
118.5338	26.02	-2.95	50184.900	2.0	134549.000	3.0	118.8961	25.01	-5.26	29919.220	2.0	114026.300	3.0
118.5339	29.01	-3.33	66418.520	2.0	150								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
118.9498	26.02	-4.47	83138.230	5.0	167207.300	4.0
118.9535	26.02	-4.62	138691.810	1.0	222758.280	2.0
118.9553	26.02	-4.23	50295.200	3.0	134360.400	4.0
118.9555	7.00	-3.15	28838.920	.5	112904.000	.5
118.9560	7.00	-3.45	28839.306	1.5	112904.000	.5
118.9596	26.02	-5.47	30886.400	4.0	114948.550	3.0
118.9631	6.00	-1.54	43.400	2.0	84103.100	2.0
118.9657	26.02	-2.06	116380.070	1.0	200437.940	2.0
118.9658	23.02	-4.62	99941.200	3.5	183999.000	3.5
118.9691	26.02	-5.86	34812.400	0.0	118867.870	1.0
118.9730	26.01	-4.38	2430.080	3.5	86482.750	3.5
118.9770	10.01	-4.97	224087.020	1.5	308136.890	1.5
118.9827	26.02	-3.77	83161.480	4.0	167207.300	4.0
118.9844	27.02	-4.70	22720.300	5.5	106764.900	4.5
118.9927	10.01	-3.49	224699.270	.5	308738.030	1.5
118.9996	28.01	-3.64	23108.280	2.5	107142.210	1.5
119.0021	6.00	-2.42	0.000	0.0	84032.150	1.0
119.0032	7.00	-4.38	28838.920	.5	112870.270	.5
119.0038	7.00	-3.25	28839.306	1.5	112870.270	.5
119.0079	28.01	-2.85	52738.450	2.5	136766.490	2.5
119.0088	13.01	-1.26	37453.800	1.0	121481.200	1.0
119.0092	13.01	-1.78	37453.800	1.0	121480.900	2.0
119.0180	27.02	-3.28	72270.500	3.5	156291.400	2.5
119.0208	16.02	-4.44	0.000	0.0	84018.900	1.0
119.0213	26.02	-2.09	116419.390	2.0	200437.940	2.0
119.0253	6.00	-2.74	16.400	1.0	84032.150	1.0
119.0262	26.01	-7.77	8680.470	1.5	92695.620	2.5
119.0268	9.02	-4.51	380307.130	1.5	464321.840	2.5
119.0275	27.02	-2.78	55729.200	3.5	139743.400	2.5
119.0299	28.01	-3.63	32499.530	4.5	116512.060	3.5
119.0322	18.03	-6.28	35033.100	1.5	119044.000	.5
119.0347	27.02	-3.33	56373.800	2.5	140382.900	3.5
119.0350	26.02	-3.50	116316.630	5.0	200325.560	4.0
119.0382	28.01	-4.64	54557.050	4.5	138563.710	3.5
119.0391	25.04	-9.91	178560.000	4.5	262566.000	3.5
119.0412	14.01	-1.15	0.000	.5	84004.520	1.5
119.0441	28.01	-2.09	25036.380	2.5	109038.840	1.5
119.0469	7.00	-3.13	28838.920	.5	112838.020	1.5
119.0494	7.00	-3.16	28839.306	1.5	112838.020	1.5
119.0539	24.02	-2.99	25725.800	3.0	109721.400	3.0
119.0582	26.02	-4.29	118163.560	2.0	202156.130	2.0
119.0636	6.00	-2.44	43.400	2.0	84032.150	1.0
119.0654	9.02	-3.55	356371.820	2.5	440359.260	3.5
119.0687	7.00	-2.57	28839.306	1.5	112824.459	2.5
119.0721	12.03	-1.61	596527.300	2.5	680510.000	2.5
119.0746	26.02	-4.70	63425.170	6.0	147406.140	5.0
119.0846	28.01	-5.91	23108.280	2.5	107082.210	2.5
119.0856	7.00	-3.03	28839.306	1.5	112812.518	2.5
119.0867	20.02	-1.14	277380.060	2.0	361353.310	1.0
119.0898	26.02	-2.89	50295.200	3.0	134265.420	2.0
119.0909	26.02	-3.94	83237.860	3.0	167207.300	4.0
119.0921	7.00	-2.24	28838.920	.5	112807.567	.5
119.0926	7.00	-2.91	28839.306	1.5	112807.567	.5
119.0946	26.01	-2.70	8391.920	2.5	92358.800	1.5
119.0974	26.02	-1.45	116419.390	2.0	200384.280	3.0
119.1008	26.02	-2.99	116475.440	3.0	200437.940	2.0
119.1013	7.00	-2.96	28838.920	.5	112801.031	1.5
119.1019	7.00	-3.00	28839.306	1.5	112801.031	1.5
119.1069	23.02	-1.87	15550.300	.5	99508.500	1.5
119.1091	26.02	-4.31	73727.640	2.0	157684.300	2.0
119.1114	26.02	-4.91	40999.870	2.0	124954.880	1.0
119.1155	12.03	-4.79	597071.900	1.5	681024.000	.5
119.1192	27.02	-3.60	72341.900	1.5	156291.400	2.5
119.1304	28.01	-2.53	23796.180	1.5	107737.810	1.5
119.1321	24.02	-4.30	25781.000	2.0	109721.400	3.0
119.1331	26.02	-4.54	63466.390	5.0	147406.140	5.0
119.1353	26.01	-1.58	8391.920	2.5	92330.100	2.5
119.1384	10.01	-3.59	224087.020	1.5	308022.990	.5
119.1419	28.01	-4.06	56075.020	2.5	140008.760	3.5
119.1470	26.01	-2.10	2837.940	2.5	86767.870	2.5
119.1488	23.02	-2.91	15579.800	1.5	99508.500	1.5
119.1499	26.02	-4.87	116467.410	4.0	200395.330	5.0
119.1559	26.02	-4.48	83161.480	4.0	167085.120	3.0
119.1596	7.00	-2.78	28838.920	.5	112759.966	1.5
119.1597	7.00	-2.54	28839.306	1.5	112760.325	2.5
119.1602	7.00	-2.99	28839.306	1.5	112759.966	1.5
119.1607	30.02	-3.39	194303.300	2.0	278223.600	3.0
119.1612	10.01	-3.66	224087.020	1.5	308006.930	.5
119.1645	30.02	-1.10	128909.400	1.0	302827.000	2.0
119.1656	26.02	-3.20	116467.410	4.0	200384.280	3.0
119.1744	25.02	-1.15	29167.700	2.5	113078.340	1.5
119.1759	26.02	-3.25	118246.520	3.0	202156.130	2.0
119.1770	26.02	-1.73	116475.440	3.0	200384.280	3.0
119.1802	9.02	-1.86	357479.350	1.5	441385.880	1.5
119.1838	26.02	-3.66	40999.870	2.0	124903.920	2.0
119.1838	6.00	-5.55	43.400	2.0	83947.430	3.0
119.1868	13.01	-2.44	37579.300	2.0	121481.200	1.0
119.1872	13.01	-1.26	37579.300	2.0	121480.900	2.0
119.1881	13.01	-1.51	37579.300	2.0	121480.300	3.0
119.1915	11.02	-3.98	411548.200	2.5	495446.800	3.5
119.1923	7.00	-2.82	28838.920	.5	112736.961	1.5
119.1928	7.00	-2.41	28839.306	1.5	112736.961	1.5
119.1953	27.02	-5.39	23058.800	2.5	106954.700	2.5
119.1962	24.02	-2.90	17850.000	2.0	101745.300	3.0
119.1968	25.02	-4.40	134286.000	.5	218180.900	1.5
119.1981	26.02	-4.46	35803.700	2.0	119697.640	2.0
119.2025	26.01	-1.92	8391.920	2.5	92282.760	3.5
119.2218	6.00	-3.73	0.000	0.0	83877.310	1.0
119.2244	25.01	-5.35	0.000	3.0	83875.460	4.0
119.2303	26.01	-7.92	0.000	4.5	83871.310	4.5
119.2306	28.01	-2.81	53365.170	4.5	137236.280	3.5
119.2307	25.02	-1.35	29207.300	.5	113078.340	1.5
119.2307	25.04	-1.70	176937.000	1.5	260808.000	1.5
119.2317	25.01	-1.64	14593.820	3.0	98464.160	4.0
119.2322	26.02	-2.69	83429.610	6.0	167299.600	5.0
119.2331	25.01	-1.20	14593.820	3.0	98463.160	3.0
119.2342	25.01	-2.22	14593.820	3.0	98462.340	2.0
119.2367	26.02	-3.23	118163.560	2.0	202030.380	3.0
119.2451	6.00	-3.85	16.400	1.0	83877.310	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
119.2456	25.02	-3.24	26851.100	4.5	110711.620	3.5
119.2459	23.02	-3.15	15579.800	1.5	99440.100	2.5
119.2490	26.02	-1.76	116467.410	4.0	200325.560	4.0
119.2547	26.02	-2.86	40999.870	2.0	124854.040	3.0
119.2552	25.02	-6.94	26857.000	2.5	110711.620	3.5
119.2561	26.02	-2.20	50412.300	2.0	134265.420	2.0
119.2563	7.00	-2.80	28838.920	.5	112691.960	.5
119.2568	7.00	-3.11	28839.306	1.5	112691.960	.5
119.2577	27.02	-3.04	56373.800	2.5	140225.800	3.5
119.2581	25.02	-4.69	26859.900	3.5	110711.620	3.5
119.2593	28.01	-2.09	52738.450	2.5	136589.350	3.5
119.2604	26.02	-1.05	116475.440	3.0	200325.560	4.0
119.2645	26.02	-4.25	83237.860	3.0	167085.120	3.0
119.2693	24.02	-1.28	25725.800	3.0	109569.700	2.0
119.2714	10.02	-4.51	352745.910	3.0	436588.340	4.0
119.2718	7.00	-3.82	28839.306	1.5	112681.389	2.5
119.2725	25.02	-4.81	134286.000	.5	218127.590	.5
119.2725	27.02	-4.28	15201.900	2.5	99043.500	1.5
119.2758	26.02	-2.11	82382.870	3.0	166222.200	4.0
119.2779	27.02	-3.44	56373.800	2.5	140211.600	2.5
119.2792	25.02	-1.99	29241.400	1.5	113078.340	1.5
119.2799	9.02	-2.77	357479.350	1.5	441315.800	.5
119.2816	26.02	-3.06	73849.100	1.0	157684.300	2.0
119.2835	6.00	-3.65	43.400	2.0	83877.310	1.0
119.2881	9.02	-4.90	356371.820	2.5	440202.480	2.5
119.2897	28.02	-3.75	54657.900	4.0	138487.400	3.0
119.2943	27.02	-3.79	56373.800	2.5	140200.100	1.5
119.2969	26.01	-4.32	8391.920	2.5	92216.420	1.5
119.2984	28.01	-3.05	53365.170	4.5	137188.580	4.5
119.3008	8.02	-1.75	293865.260	1.0	377687.000	2.0
119.3009	6.00	-2.18	16.400	1.0	83838.080	2.0
119.3031	6.00	-2.50	0.000	0.0	83820.130	1.0
119.3088	27.02	-6.24	24236.800	1.5	108052.900	2.5
119.3194	26.02	-4.77	139463.360	5.0	223272.060	6.0
119.3206	10.01	-2.86	224087.020	1.5	307894.840	2.5
119.3208	24.02	-5.09	25725.800	3.0	109533.500	4.0
119.3240	6.00	-1.84	43.400	2.0	83848.830	3.0
119.3264	6.00	-2.46	16.400	1.0	83820.130	1.0
119.3269	28.01	-1.26	55299.650	4.5	139103.050	5.5
119.3286	14.01	-1.15	0.000	.5	83802.210	.5
119.3318	26.02	-4.61	139509.440	5.0	223309.370	5.0
119.3319	25.02	-4.22	134286.000	.5	218085.880	.5</

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
119.5293	30.02	-1.42	216464.500	4.0	300126.000	4.0	119.8495	25.02	-1.90	29207.300	.5	112645.310	.5
119.5330	30.02	-2.56	216464.500	4.0	300123.400	5.0	119.8500	10.01	-4.23	224699.270	.5	308136.890	1.5
119.5332	18.03	-5.59	34856.200	.5	118515.000	1.5	119.8545	26.02	-4.32	118721.600	2.0	202156.130	2.0
119.5412	24.02	-2.05	25781.000	2.0	109434.200	2.0	119.8551	12.03	-1.25	597589.900	.5	681024.000	.5
119.5452	26.01	-3.24	3117.480	1.5	86767.870	2.5	119.8604	27.02	-4.11	23058.800	2.5	106489.200	3.5
119.5463	26.01	-1.12	8680.470	1.5	92330.100	2.5	119.8609	26.01	-3.92	3117.480	1.5	86547.550	2.5
119.5531	26.01	-3.93	2837.940	2.5	86482.750	3.5	119.8611	23.02	-4.42	16374.700	2.5	99804.570	2.5
119.5549	30.02	-2.73	216464.500	4.0	300108.100	3.0	119.8627	25.02	-3.02	134638.390	1.5	218067.190	2.5
119.5638	28.01	-4.44	56371.410	3.5	140008.760	3.5	119.8658	26.01	-2.29	3117.480	1.5	86544.140	1.5
119.5675	28.01	-3.51	56371.410	3.5	140006.170	4.5	119.8710	25.02	-4.48	135246.270	2.5	218669.260	1.5
119.5692	30.02	-2.25	216464.500	4.0	300098.100	4.0	119.8744	28.01	-3.36	51557.850	3.5	134978.470	2.5
119.5726	23.02	-4.70	15550.300	.5	99181.500	1.5	119.8797	26.02	-2.00	116467.410	4.0	199884.390	5.0
119.5772	25.02	-4.53	135041.250	1.5	218669.260	1.5	119.8799	28.01	-3.89	56075.260	2.5	139492.100	2.5
119.5868	27.02	-3.82	15201.900	2.5	98623.200	2.5	119.8799	27.02	-2.83	56794.800	1.5	140211.600	2.5
119.5908	30.02	-2.80	216464.500	4.0	300083.000	3.0	119.8827	25.02	-3.16	135781.090	5.5	219195.950	4.5
119.5953	27.02	-4.16	15428.200	1.5	99043.500	1.5	119.8863	14.01	-3.75	42824.350	.5	126236.700	1.5
119.6092	26.02	-4.86	140453.100	3.0	224058.700	4.0	119.8889	9.02	-1.53	384358.540	.5	467769.110	.5
119.6148	23.02	-3.07	15579.800	1.5	99181.500	1.5	119.8908	26.02	-3.22	116975.050	2.0	200384.280	3.0
119.6201	25.04	-0.99	177862.000	3.5	261460.000	2.5	119.8965	27.02	-3.77	56794.800	1.5	140200.100	1.5
119.6262	24.02	-3.80	17850.000	2.0	101443.700	2.0	119.8973	9.01	-4.89	211866.130	3.0	295270.850	3.0
119.6321	24.02	-1.67	18510.000	3.0	102099.600	4.0	119.8985	25.02	-1.21	29241.400	1.5	112645.310	.5
119.6324	26.02	-2.00	116316.630	5.0	199906.030	6.0	119.9058	27.02	-5.15	20194.900	1.5	103593.700	2.5
119.6328	28.01	-3.28	52738.450	2.5	136327.550	1.5	119.9083	26.02	-4.99	63494.000	3.0	146891.040	3.0
119.6338	25.02	-4.81	135116.800	1.5	218705.250	2.5	119.9113	27.02	-4.40	15428.200	1.5	98823.200	2.5
119.6344	26.04	-0.92	195212.000	2.0	278800.000	3.0	119.9196	24.02	-2.14	25848.200	1.0	109237.400	1.0
119.6346	28.01	-3.03	32499.530	4.5	116087.380	4.5	119.9276	9.01	-4.67	211887.190	2.0	295270.850	3.0
119.6352	26.02	-3.56	118442.920	3.0	202030.380	3.0	119.9279	26.02	-5.41	30356.200	6.0	113739.620	6.0
119.6373	24.02	-3.38	25848.200	1.0	109434.200	2.0	119.9287	26.01	-7.33	977.030	.5	84359.900	1.5
119.6397	30.02	-0.55	216464.500	4.0	300048.800	5.0	119.9307	28.01	-3.19	56075.260	2.5	139456.750	1.5
119.6402	25.02	-4.77	134789.080	.5	218373.000	1.5	119.9338	13.03	-0.66	687456.800	1.0	770836.100	1.0
119.6592	25.02	-3.67	135246.270	2.5	218816.970	2.5	119.9338	13.03	-0.66	687456.800	1.0	770836.100	1.0
119.6612	26.02	-3.13	118350.240	4.0	201919.530	4.0	119.9343	16.05	-2.03	462653.000	2.5	546032.000	2.5
119.6634	26.02	-2.94	116316.630	5.0	199884.390	5.0	119.9343	16.05	-0.73	462653.000	3.5	546032.000	2.5
119.6652	23.02	-2.86	16374.700	2.5	99941.200	3.5	119.9372	20.02	-1.54	279741.800	2.0	363118.750	3.0
119.6673	26.04	-0.81	195942.000	3.0	279507.000	4.0	119.9392	25.01	-0.10	0.000	3.0	83375.600	3.0
119.6728	25.01	-1.08	14901.180	1.0	98462.340	2.0	119.9414	18.02	-1.93	156917.620	3.0	240291.660	2.0
119.6737	25.01	-1.38	14901.180	1.0	98461.760	1.0	119.9415	16.05	-0.18	546021.000	1.5	629395.000	2.5
119.6761	28.01	-4.98	51557.850	3.5	135116.720	2.5	119.9423	8.02	-1.83	294001.600	2.0	377375.000	2.0
119.6788	28.01	-3.41	55018.710	2.5	138575.690	2.5	119.9452	26.02	-4.77	139463.360	5.0	222834.770	6.0
119.6853	25.02	-3.81	135116.800	1.5	218669.260	1.5	119.9461	27.02	-6.44	15811.400	.5	99182.200	.5
119.6886	28.01	-2.80	52738.450	2.5	136288.600	2.5	119.9477	26.01	-6.82	8846.760	.5	92216.420	1.5
119.6910	30.02	-1.59	219360.000	4.0	302098.500	4.0	119.9478	27.02	-3.81	56373.800	2.5	139743.400	2.5
119.6938	26.02	-5.09	30088.840	3.0	113635.340	4.0	119.9501	16.05	-0.88	462653.000	2.5	546021.000	1.5
119.6960	28.01	-4.56	55018.710	2.5	138563.710	3.5	119.9516	18.02	-2.44	156924.680	2.0	240291.660	2.0
119.6988	24.03	-2.71	174854.000	3.5	258397.000	4.5	119.9526	20.02	-1.34	277022.400	3.0	360388.680	3.0
119.6994	28.01	-3.40	51557.850	3.5	135100.450	3.5	119.9539	26.02	-3.03	140693.360	3.0	224058.700	4.0
119.6995	25.02	-4.55	134638.390	1.5	218180.900	1.5	119.9550	7.00	-0.64	0.000	1.5	83364.590	2.5
119.7000	26.02	-4.86	118350.240	4.0	201892.440	5.0	119.9573	16.05	-0.02	546032.000	2.5	629395.000	3.5
119.7021	25.02	-4.76	26857.800	2.5	110398.500	2.5	119.9573	16.05	-1.32	546032.000	2.5	629395.000	2.5
119.7035	26.02	-1.91	116898.220	2.0	200437.940	2.0	119.9583	26.02	-3.88	118557.250	5.0	201919.530	4.0
119.7051	25.02	-3.56	26859.900	3.5	110398.500	2.5	119.9609	27.02	-2.74	72341.900	1.5	155702.400	1.5
119.7068	26.02	-3.24	118355.010	6.0	201892.440	5.0	119.9641	26.02	-4.01	140693.360	3.0	224051.630	3.0
119.7089	26.01	-4.46	8680.470	1.5	92216.420	1.5	119.9688	26.02	-2.75	83646.980	1.0	167002.000	2.0
119.7130	27.02	-6.44	23058.800	2.5	106591.900	1.5	119.9817	28.01	-4.81	23796.180	1.5	107142.210	1.5
119.7183	25.01	.01	0.000	3.0	83529.400	4.0	119.9845	26.02	-3.70	118686.250	4.0	202030.380	3.0
119.7196	8.02	-1.83	297557.500	1.0	381086.000	1.0	119.9851	27.02	-3.63	15201.900	2.5	98545.600	3.5
119.7276	23.02	-3.36	15550.300	.5	99073.230	.5	119.9904	25.01	-4.24	30684.810	1.0	114024.800	2.0
119.7296	25.02	-3.66	134286.000	.5	217807.570	1.5	119.9923	25.01	-4.54	30684.810	1.0	114023.500	1.5
119.7320	28.01	-2.19	54262.630	3.5	137782.500	4.5	119.9925	25.02	-4.50	134789.080	.5	218127.590	.5
119.7347	24.02	-0.70	18581.600	4.0	102099.600	4.0	119.9941	26.02	-3.04	116467.410	4.0	199804.810	4.0
119.7375	30.02	-1.29	216607.400	5.0	300123.400	5.0	119.9957	26.02	-4.66	82382.870	3.0	165719.200	4.0
119.7391	14.01	-1.14	287.320	1.5	83802.210	.5	119.9971	28.01	-4.73	51045.460	4.5	134380.820	3.5
119.7405	28.01	-2.22	54262.630	3.5	137776.550	3.5	119.9973	26.02	-4.40	118557.250	5.0	201892.440	5.0
119.7429	28.01	-4.75	23108.280	2.5	106620.530	3.5	119.9989	9.02	-1.13	384493.060	1.5	467827.160	1.5
119.7432	26.01	-1.34	8846.760	.5	92358.800	1.5	119.9993	10.01	-3.33	224087.020	1.5	307420.820	2.5
119.7464	30.02	-2.81	219360.000	4.0	302869.800	3.0	120.0006	18.02	-1.93	156924.680	2.0	240257.590	1.0
119.7465	8.02	-1.14	293865.260	1.0	377375.000	2.0	120.0023	25.02	-4.09	135041.250	1.5	118373.000	1.5
119.7547	10.03	-4.02	532978.000	1.5	616482.000	.5	120.0039	27.02	-7.25	23434.300	4.5	106764.900	4.5
119.7551	25.02	-4.82	135692.170	3.5	219195.950	4.5	120.0057	26.02	-1.99	116475.440	3.0	199804.810	4.0
119.7566	12.03	-1.89	596527.300	2.5	680030.000	1.5	120.0061	8.03	-1.62	510744.900	2.5	594074.000	3.5
119.7577	25.01	-1.38	14959.840	0.0	98461.760	1.0	120.0103	25.02	-4.65	135869.760	3.5	219195.950	4.5
119.7599	26.02	-1.19	116937.570	1.0	200437.940	2.0	120.0104	28.01	-3.79	53634.620	1.5	136960.750	2.5
119.7644	26.01	-0.04	862.630	1.5	84359.900	1.5	120.0115	26.02	-4.72	139509.440	5.0	228334.770	6.0
119.7664	27.02	-5.99	20194.900	1.5	103690.800	.5	120.0117	28.01	-2.26	53634.620	1.5	136959.860	2.5
119.7691	25.04	-1.12	177314.000	2.5	260808.000	1.5	120.0180	26.02	-7.26	30356.200	6.0	113677.010	5.0
119.7699	23.02	-3.86	15579.800	1.5	99073.230	.5	120.0183	28.01	-2.25	53634.620	1.5	136955.280	.5
119.7730	28.01	-2.97	54262.630	3.5	137753.870	4.5	120.0224	7.00	-0.81	0.000	1.5	83317.800	1.5
119.7738	30.02	-2.28	216607.400	5.0	300098.								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
120.0989	28.01	-4.60	53634.620	1.5	136899.330	1.5
120.0989	28.01	-2.62	55299.650	4.5	138563.710	3.5
120.1042	28.01	-5.21	23108.280	2.5	106369.300	1.5
120.1053	18.02	-3.46	157031.400	1.0	240291.660	2.0
120.1055	25.02	-3.84	13246.270	2.5	218506.390	3.5
120.1100	26.02	-1.47	117068.560	3.0	200325.560	4.0
120.1118	25.01	-1.25	0.000	3.0	83255.800	2.0
120.1152	27.02	-4.80	56373.800	2.5	139627.200	1.5
120.1174	25.02	-3.06	135944.080	4.5	219195.950	4.5
120.1236	28.01	-2.26	52738.450	2.5	135986.060	3.5
120.1276	25.02	-3.55	135732.500	4.5	218977.340	3.5
120.1277	28.01	-4.50	52738.450	2.5	135983.220	1.5
120.1353	17.00	-1.57	882.360	5	84121.872	1.5
120.1407	26.02	-4.79	139463.360	5.0	222699.090	5.0
120.1409	9.02	-4.68	406904.380	5	490140.000	1.5
120.1413	26.02	-4.49	139509.440	5.0	222744.790	5.0
120.1413	24.02	-1.84	18510.000	3.0	101745.300	3.0
120.1442	26.02	-2.59	118686.250	4.0	201919.530	4.0
120.1460	27.02	-6.00	15811.400	5	99043.500	1.5
120.1470	26.02	-2.26	57221.700	4.0	140453.100	3.0
120.1475	24.03	-1.95	175166.000	3.5	258397.000	4.5
120.1475	9.02	-4.40	406908.950	1.5	490140.000	2.5
120.1542	26.02	-3.25	116475.440	3.0	199701.820	3.0
120.1545	18.02	-2.23	157031.400	1.0	240257.590	1.0
120.1550	25.02	-4.35	123937.060	5	216162.900	1.5
120.1556	28.01	-1.87	54557.050	4.5	137782.500	4.5
120.1574	28.01	-4.80	53365.170	4.5	136589.350	3.5
120.1582	30.02	-2.71	219684.900	3.0	302908.500	4.0
120.1599	10.01	-3.87	224087.020	1.5	307309.460	5
120.1641	28.01	-4.00	54557.050	4.5	137776.550	3.5
120.1666	28.01	-2.75	53634.620	1.5	138652.440	1.5
120.1722	16.02	-1.67	832.500	2.0	84046.400	2.0
120.1782	23.02	-4.64	98825.190	3.5	182034.970	4.5
120.1793	26.02	-3.87	113677.010	5.0	196886.010	6.0
120.1817	26.02	-4.78	139625.170	4.0	222832.480	5.0
120.1834	26.02	-3.98	118686.250	4.0	201892.440	5.0
120.1837	28.01	-2.06	52738.450	2.5	135944.400	3.5
120.1853	26.02	-4.31	139509.440	5.0	222714.300	6.0
120.1861	20.02	-1.81	281139.550	1.0	364343.850	1.0
120.1908	26.01	-8.17	667.640	2.5	83868.650	2.5
120.1917	23.02	-3.47	11513.800	5	94714.250	5
120.1956	28.01	-1.49	54557.050	4.5	137754.780	5.5
120.1969	28.01	-1.85	54557.050	4.5	137753.870	4.5
120.2002	25.02	-4.66	135510.700	2.5	218705.250	2.5
120.2010	26.04	-1.70	196845.000	4.0	280039.000	5.0
120.2073	26.02	-4.17	139509.440	5.0	222699.090	5.0
120.2120	16.02	-1.90	832.500	2.0	84018.900	1.0
120.2127	28.01	-1.96	54557.050	4.5	137742.950	5.5
120.2141	30.02	-4.48	219684.900	3.0	302869.800	3.0
120.2143	20.02	-2.42	277022.400	3.0	360207.160	2.0
120.2201	30.02	-1.21	216895.300	1.0	300076.100	2.0
120.2241	23.02	-1.66	16330.500	1.5	99508.500	1.5
120.2286	28.01	-4.77	23108.280	2.5	106283.160	2.5
120.2312	20.02	-1.44	278621.010	1.0	361794.080	1.0
120.2368	25.02	-3.34	134638.390	1.5	171807.570	1.5
120.2448	24.02	-1.60	18581.600	4.0	101745.300	3.0
120.2450	28.01	-1.98	52738.450	2.5	135901.960	2.5
120.2453	27.02	-4.08	57036.800	5	140200.100	1.5
120.2522	25.02	-4.45	135510.700	2.5	218669.260	1.5
120.2532	30.02	-2.72	216895.300	1.0	300053.200	2.0
120.2532	28.01	-3.04	55417.830	3.5	138575.690	2.5
120.2586	25.02	-2.76	13246.270	2.5	218400.400	3.5
120.2586	28.01	-4.99	53365.170	4.5	136519.280	4.5
120.2597	8.02	-3.49	294221.650	3.0	377375.000	2.0
120.2622	20.02	-2.64	279741.800	2.0	362893.470	2.0
120.2643	28.01	-1.94	54557.050	4.5	137707.260	3.5
120.2666	24.02	-3.44	17272.800	4.0	100421.400	5.0
120.2668	8.02	-1.22	297557.500	1.0	380706.000	2.0
120.2698	26.02	-4.73	113739.620	6.0	196886.010	6.0
120.2705	28.01	-3.50	55417.830	3.5	138563.710	3.5
120.2749	26.02	-4.46	139680.470	3.0	222823.330	4.0
120.2764	26.02	-3.48	113739.620	6.0	196881.470	7.0
120.2790	26.02	-4.02	84159.550	4.0	167299.600	5.0
120.2796	25.02	-4.21	135041.250	1.5	218180.900	1.5
120.2803	26.02	-3.50	83358.880	2.0	166498.000	3.0
120.2880	23.02	-1.21	16374.700	2.5	99508.500	1.5
120.2908	28.01	-2.05	53634.620	1.5	136766.490	2.5
120.2931	23.02	-4.30	16810.900	4.5	99941.200	3.5
120.2982	25.02	-3.55	135246.270	2.5	218373.000	1.5
120.3010	25.02	-3.74	135692.170	3.5	218816.970	2.5
120.3029	30.02	-1.73	219684.900	3.0	302808.400	4.0
120.3044	23.02	-2.75	11591.800	1.5	94714.250	5
120.3070	28.01	-2.90	56371.410	3.5	139492.100	2.5
120.3085	26.02	-4.44	139625.170	4.0	222744.790	5.0
120.3091	18.02	-2.17	157031.400	1.0	240150.660	0.0
120.3113	27.02	-4.32	46438.300	4.5	129556.000	5.5
120.3129	22.02	-3.95	0.000	2.0	83116.580	3.0
120.3175	30.02	-2.02	216895.300	1.0	300008.700	1.0
120.3230	23.02	-3.67	16330.500	1.5	99440.100	2.5
120.3237	26.02	-4.31	139625.170	4.0	222734.330	4.0
120.3260	25.02	-3.48	135869.760	3.5	218977.340	3.5
120.3262	30.02	-1.32	147498.600	1.0	230606.000	2.0
120.3267	25.02	-3.36	135709.900	2.5	218816.970	2.5
120.3341	28.01	-3.29	54176.260	5	137278.220	1.5
120.3359	28.01	-3.02	51557.850	3.5	134658.600	4.5
120.3397	28.01	-3.25	53634.620	1.5	136732.740	1.5
120.3398	15.03	-1.97	256544.100	0.0	339642.100	1.0
120.3416	8.03	-1.19	510977.200	3.5	594074.000	3.5
120.3470	26.02	-4.15	139509.440	5.0	222602.500	6.0
120.3504	28.01	-4.61	53634.620	1.5	136725.330	5
120.3509	20.02	-1.59	281139.550	1.0	364229.890	0.0
120.3567	25.02	-3.88	135041.250	1.5	218127.590	5
120.3598	28.01	-2.91	51557.850	3.5	134642.090	3.5
120.3602	26.02	-4.83	83138.230	5.0	166222.200	4.0
120.3643	26.02	-2.70	76956.790	3.0	160037.900	2.0
120.3721	26.02	-4.96	140196.330	7.0	223272.060	6.0
120.3790	25.01	-8.56	0.000	3.0	83070.970	2.0
120.3839	28.01	-3.95	56424.490	1.5	139492.100	2.5
120.3840	24.02	-4.90	25725.800	3.0	108793.300	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
120.3871	23.02	-1.60	16374.700	2.5	99440.100	2.5
120.3889	26.02	-6.11	35803.700	2.0	118867.870	1.0
120.3890	25.02	-4.63	135116.800	1.5	218180.900	1.5
120.3935	26.02	-4.78	66664.640	3.0	149525.630	2.0
120.3939	26.02	-4.76	83161.480	4.0	166222.200	4.0
120.3946	27.02	-4.73	24236.800	1.5	107297.000	1.5
120.4011	26.02	-3.94	141002.990	4.0	224058.700	4.0
120.4023	27.02	-7.30	23434.300	4.5	106489.200	3.5
120.4082	11.02	-3.69	411548.200	2.5	494599.000	2.5
120.4101	28.01	-1.67	51557.850	3.5	134607.370	4.5
120.4105	26.02	-4.10	83138.230	5.0	166187.500	6.0
120.4127	26.02	-3.56	84159.550	4.0	167207.300	4.0
120.4159	27.02	-1.49	55729.200	3.5	138774.700	2.5
120.4204	28.01	-2.61	32523.540	3.5	115565.980	2.5
120.4213	8.03	-1.62	510977.200	3.5	594019.000	2.5
120.4248	15.03	-2.10	256602.700	1.0	339642.100	1.0
120.4288	15.03	-1.62	256602.700	1.0	339639.300	2.0
120.4301	26.02	-3.05	141002.990	4.0	224038.730	5.0
120.4302	28.01	-4.44	54176.260	5	137211.930	5
120.4314	30.02	-1.71	147571.200	1.0	230606.000	0.0
120.4322	30.02	-1.88	217073.800	2.0	300108.100	3.0
120.4337	25.02	-3.43	135944.080	4.5	218977.340	3.5
120.4351	28.01	-3.05	56424.490	1.5	139456.750	1.5
120.4362	26.02	-4.77	147161.360	4.0	230192.860	3.0
120.4443	24.02	-1.87	17395.500	5.0	100421.400	5.0
120.4489	28.01	-4.69	53496.490	5.5	136519.280	4.5
120.4629	25.02	-4.67	135692.170	3.5	218705.250	2.5
120.4641	24.02	-5.71	25781.000	2.0	108793.300	3.0
120.4652	29.01	-4.47	26264.400	2.0	109275.900	3.0
120.4686	30.02	-1.18	217073.800	2.0	300083.000	3.0
120.4706	20.02	-2.70	277380.860	2.0	360388.680	3.0
120.4732	26.01	-6.95	862.630	1.5	83868.650	2.5
120.4786	30.02	-2.05	217073.800	2.0	300076.100	2.0
120.4798	25.01	-4.44	31022.050	0.0	114023.500	1.0
120.4799	13.03	-2.36	687834.700	2.0	770836.100	1.0
120.4810	23.02	-4.38	98825.190	3.5	181825.840	4.5
120.4880	28.01	-3.96	55018.710	2.5	138014.530	2.5
120.4882	25.02	-4.40	135510.700	2.5	218506.390	3.5
120.4887	25.02	-3.99	135709.900	2.5	218705.250	2.5
120.4904	10.02	-1.85	356766.200	1.0	439760.350	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
120.7139	25.01	-3.89	27588.230	3.0	110428.700	4.0	121.0126	13.01	-1.39	37453.800	1.0	120089.800	1.0
120.7200	28.01	-4.99	53365.170	4.5	136201.460	3.5	121.0140	11.02	-4.56	411963.900	1.5	494599.000	2.5
120.7212	25.02	-3.66	135869.760	3.5	218709.250	2.5	121.0161	26.02	-4.99	147614.650	2.0	230248.260	1.0
120.7220	10.02	-4.54	352692.930	2.0	435527.900	2.0	121.0166	26.02	-4.24	117068.560	3.0	199701.820	3.0
120.7257	27.02	-3.21	56794.800	1.5	139627.200	1.5	121.0184	26.02	-3.11	84369.920	2.0	167002.000	2.0
120.7281	25.01	-8.59	0.000	3.0	82830.750	4.0	121.0192	28.01	-2.77	54557.050	4.5	137188.580	4.5
120.7340	24.02	-1.84	17272.800	4.0	100099.500	4.0	121.0238	26.02	-4.65	140196.330	7.0	222824.710	7.0
120.7346	20.02	-1.22	277380.860	2.0	360207.160	2.0	121.0241	27.01	-6.21	0.000	4.0	82628.200	3.0
120.7407	10.02	-4.37	352745.910	3.0	435568.000	3.0	121.0283	28.02	-4.37	55406.100	3.0	138031.400	4.0
120.7424	25.02	-3.38	135246.270	2.5	218067.190	2.5	121.0337	25.01	-2.44	27583.300	4.0	110204.900	3.0
120.7432	30.02	-2.86	220006.600	1.0	302827.000	2.0	121.0343	26.02	-4.61	147635.950	3.0	230257.150	2.0
120.7441	10.02	-1.71	356766.200	1.0	439586.000	2.0	121.0348	28.01	-4.17	53365.170	4.5	135986.060	3.5
120.7443	23.02	-1.54	15579.800	1.5	98399.420	.5	121.0366	9.02	-1.33	384358.540	.5	466978.150	1.5
120.7502	25.02	-2.36	135781.090	5.5	218596.690	5.5	121.0391	28.01	-2.39	54262.630	3.5	136880.560	4.5
120.7515	28.02	-3.78	61339.200	4.0	144153.900	4.0	121.0409	25.01	-2.70	27588.230	3.0	110204.900	3.0
120.7522	25.02	-3.28	135692.170	3.5	218506.390	3.5	121.0421	25.01	-3.44	27589.030	2.0	110204.900	3.0
120.7550	10.01	-4.39	224087.020	1.5	306899.330	2.5	121.0422	25.02	-4.57	135692.170	3.5	218307.980	2.5
120.7579	25.02	-3.48	135858.960	2.5	218669.260	1.5	121.0476	28.01	-2.64	53365.170	4.5	135977.310	4.5
120.7591	10.02	-1.24	356776.520	2.0	439586.000	2.0	121.0482	28.02	-4.01	79143.300	2.0	161755.000	3.0
120.7614	25.02	-3.68	135861.320	1.5	218669.260	1.5	121.0493	24.02	-4.97	25848.200	1.0	108459.200	2.0
120.7619	28.01	-2.10	51045.460	4.5	133853.040	4.5	121.0504	10.01	-3.03	224699.270	.5	307309.460	.5
120.7630	23.02	-2.24	16374.700	2.5	99181.500	1.5	121.0507	25.01	-7.29	9472.970	2.0	92083.000	3.0
120.7651	28.01	-1.49	51045.460	4.5	133850.830	3.5	121.0523	25.02	-2.65	29167.200	2.5	111776.600	1.5
120.7653	26.01	-4.29	13474.430	2.5	96279.650	2.5	121.0559	26.01	-4.13	13673.210	1.5	96279.650	2.5
120.7670	28.01	-5.11	14995.570	2.5	97799.660	1.5	121.0574	26.02	-2.06	57221.700	4.0	139827.170	4.0
120.7675	23.02	-2.97	15579.800	1.5	98383.530	2.5	121.0576	25.01	-5.83	0.000	3.0	82605.290	4.0
120.7676	26.02	-2.69	117521.910	4.0	200325.560	4.0	121.0589	25.02	-3.67	135510.700	2.5	218115.150	3.5
120.7677	26.02	-2.54	116898.220	2.0	199701.820	3.0	121.0630	26.02	-3.28	140196.330	7.0	222797.970	8.0
120.7702	30.02	-1.96	137866.400	2.0	220669.300	2.0	121.0652	14.03	-1.50	193978.890	.5	276579.030	1.5
120.7711	26.02	-4.86	83138.230	5.0	165939.470	5.0	121.0682	25.02	-3.38	135709.900	2.5	218307.980	2.5
120.7769	25.02	-4.55	135510.700	2.5	218307.980	2.5	121.0702	28.01	-2.41	55417.830	3.5	138014.530	2.5
120.7840	20.02	-1.63	282571.430	1.0	365363.880	1.0	121.0702	27.02	-1.79	56373.800	2.5	138970.500	1.5
120.7866	26.02	-8.50	30886.400	4.0	113677.010	5.0	121.0706	28.01	-2.48	32523.540	3.5	115120.000	2.5
120.7881	29.02	-4.55	63886.300	1.5	146675.900	.5	121.0728	28.01	-3.61	53365.170	4.5	135960.080	4.5
120.8036	28.01	-3.37	54176.260	.5	136955.280	.5	121.0734	25.02	-3.43	135781.090	5.5	218375.610	4.5
120.8045	25.02	-4.98	132937.060	.5	215715.410	1.5	121.0769	26.02	-3.67	141466.530	3.0	224058.700	4.0
120.8048	20.02	-1.46	277022.400	3.0	359800.570	3.0	121.0788	28.01	-2.03	53365.170	4.5	135956.010	5.5
120.8051	26.02	-4.51	83161.480	4.0	165939.470	5.0	121.0794	27.02	-3.01	57036.800	.5	139627.200	1.5
120.8057	26.02	-3.28	30857.800	3.0	113635.340	4.0	121.0821	28.01	-3.31	57420.160	2.5	140008.760	3.5
120.8081	26.02	-4.47	42896.900	3.0	125672.830	2.0	121.0832	25.01	-9.12	9472.970	2.0	92060.800	1.0
120.8110	25.02	-3.97	135732.500	4.5	218506.390	3.5	121.0868	14.02	-4.72	175263.100	1.0	257848.500	2.0
120.8134	27.02	-5.63	20918.500	.5	103690.800	.5	121.0872	26.02	-4.56	141466.530	3.0	224051.630	3.0
120.8221	25.02	-3.73	135041.250	1.5	217807.570	1.5	121.0880	28.01	-2.67	32523.540	3.5	115108.090	2.5
120.8244	26.02	-4.03	83429.610	6.0	166187.500	6.0	121.0940	28.01	-2.65	51045.460	4.5	133625.960	5.5
120.8345	28.01	-4.60	55018.710	2.5	137776.550	3.5	121.0958	28.01	-3.22	53365.170	4.5	135944.400	3.5
120.8353	13.01	-2.48	59849.700	1.0	142607.000	2.0	121.0973	26.02	-4.25	147614.650	2.0	230192.860	3.0
120.8367	26.02	-4.39	139846.180	6.0	222602.500	6.0	121.0976	11.02	-2.57	415173.200	1.5	497751.200	.5
120.8417	28.01	-3.91	23108.280	2.5	105861.190	2.5	121.0979	8.03	-3.37	514220.400	1.5	596798.200	1.5
120.8442	27.02	-3.97	73540.200	3.5	156291.400	2.5	121.0988	28.01	-3.91	52205.950	3.5	134783.140	2.5
120.8452	26.02	-2.57	40999.870	2.0	123750.390	3.0	121.1048	28.01	-4.12	23796.180	1.5	106369.300	1.5
120.8475	26.02	-6.57	30886.400	4.0	113635.340	4.0	121.1104	25.02	-3.14	29207.300	.5	111776.600	1.5
120.8495	26.02	-4.02	30857.800	3.0	113605.370	3.0	121.1124	24.02	-4.32	17272.800	4.0	99840.700	3.0
120.8537	26.02	-4.76	139846.180	6.0	222590.860	7.0	121.1140	25.01	-7.98	9472.970	2.0	92039.800	2.0
120.8565	23.02	-3.31	16330.500	1.5	99073.230	.5	121.1170	27.02	-3.48	73726.600	2.5	156291.400	2.5
120.8589	26.02	-3.71	42896.900	3.0	125637.980	3.0	121.1221	25.02	-4.67	135246.270	2.5	217807.570	1.5
120.8646	27.02	-6.01	20918.500	.5	103655.700	1.5	121.1233	28.01	-3.73	23108.280	2.5	105668.780	2.5
120.8660	26.02	-2.42	117068.560	3.0	199804.810	4.0	121.1286	26.02	-3.80	147635.950	3.0	230192.860	3.0
120.8674	25.01	-8.07	0.000	3.0	82735.290	2.0	121.1292	25.02	-3.82	135510.700	2.5	218067.190	2.5
120.8702	24.02	-2.64	25725.800	3.0	108459.200	2.0	121.1292	28.01	-3.14	54176.260	.5	136732.740	1.5
120.8718	20.02	-1.46	278621.010	1.0	361353.310	1.0	121.1342	26.02	-2.46	40999.870	2.0	123552.950	1.0
120.8731	26.02	-4.92	119697.640	2.0	202429.040	1.0	121.1401	28.01	-3.95	54176.260	.5	136725.330	.5
120.8755	28.01	-4.38	23108.280	2.5	105838.060	3.5	121.1436	26.02	-6.00	42896.900	3.0	125443.580	4.0
120.8799	26.02	-4.28	116975.050	2.0	199701.820	3.0	121.1513	25.02	-4.26	135858.960	2.5	218400.400	3.5
120.8804	26.02	-5.31	30857.800	3.0	113584.200	2.0	121.1589	26.02	-4.26	76956.790	3.0	159493.000	2.0
120.8852	9.02	-4.83	357479.350	1.5	440202.480	2.5	121.1601	26.02	-4.40	84671.870	3.0	167207.300	4.0
120.8853	28.01	-2.84	54176.260	.5	136899.330	1.5	121.1604	25.02	-3.84	29241.400	1.5	111776.600	1.5
120.8913	26.02	-6.05	30886.400	4.0	113605.370	3.0	121.1636	20.02	-2.18	278621.010	1.0	361154.070	2.0
120.8928	27.02	-4.16	24236.800	1.5	106954.700	2.5	121.1667	18.03	-3.72	35033.100	1.5	117564.000	2.5
120.8957	25.02	-2.58	29167.200	2.5	111883.600	2.5	121.1671	25.02	-3.32	135869.760	3.5	218400.400	3.5
120.8968	26.02	-3.31	84369.920	2.0	167085.120	3.0	121.1709	26.02	-3.60	49576.900	1.0	132104.940	2.0
120.9006	25.01	-7.11	0.000	3.0	82712.550	3.0	121.1739	28.02	-4.01	61339.200	4.0	143865.200	3.0
120.9039	28.01	-1.89	32499.530	4.5	115209.850	3.5	121.1757	14.03	-1.80	193978.890	.5	276503.670	.5
120.9070	25.02	-4.30	135692.170	3.5	218400.400	3.5	121.1774	14.03	-7.79	254127.080	2.5	336650.690	3.5
120.9131	24.02	-2.22	17395.500	5.0	100099.500	4.0	121.1780	23.03	-1.56	144273.100	2.0	226796.300	2.0
120.9169	28.01	-2.07	25034.380	2.5	107737.810	1.5	121.1786	13.03	-1.45	688313.300	2.0	770836.100	1.0
120.9180	26.02	-4.50	147556.450	1.0	230257.150	2.0	121.1786	13.03	-1.45	688313.300	2.0	770836.100	1.0
120.9222	13.01	-1.87	37392.000	0.0	120089.800	1.0	121.1803	14.03	-6.68	254129.030	3.5	336650.690	4.5
120.9229	26.02	-2.39	4099										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
121.2423	25.01	-3.07	27589.030	2.0	110068.500	2.0	121.5665	9.02	-3.07	360435.080	1.5	442694.580	1.5
121.2437	15.01	-6.29	21576.200	0.0	104054.700	1.0	121.5707	28.01	-3.80	54262.630	3.5	136519.280	4.5
121.2446	28.02	-4.30	63472.600	2.0	145950.500	1.0	121.5714	25.02	-2.87	135858.960	2.5	218115.150	3.5
121.2461	28.01	-3.37	55299.650	4.5	137775.500	3.5	121.5777	28.01	-4.40	451557.850	3.5	133809.760	3.5
121.2463	28.01	-4.88	32523.540	3.5	115000.250	3.5	121.5777	28.02	-2.79	75123.800	5.0	157375.700	4.0
121.2547	25.02	-4.52	135709.900	2.5	218180.900	1.5	121.5819	26.02	-3.16	120179.950	0.0	202429.040	1.0
121.2559	30.02	-1.66	217655.800	3.0	300125.000	4.0	121.5874	25.02	-4.39	135869.760	3.5	218115.150	3.5
121.2602	24.02	-3.30	25781.000	2.0	108248.300	1.0	121.5909	24.04	-1.47	237568.000	3.0	319811.000	4.0
121.2642	25.02	-4.63	135510.700	2.5	217975.300	2.5	121.5929	26.02	-3.42	57221.700	4.0	139463.360	5.0
121.2686	20.02	-1.06	281882.240	2.0	364343.850	1.0	121.5953	28.01	-1.79	52738.450	2.5	134978.470	2.5
121.2727	26.02	-3.52	57221.700	4.0	139680.470	3.0	121.6048	25.03	-4.65	111506.000	1.0	193739.600	2.0
121.2731	26.02	-3.74	119697.640	2.0	202155.130	2.0	121.6061	15.00	-4.66	0.000	1.5	82232.700	2.5
121.2763	25.02	-2.47	135944.080	4.5	218400.400	3.5	121.6151	28.01	-4.82	23796.180	1.5	106022.790	.5
121.2781	28.01	-2.38	55299.650	4.5	137754.780	5.5	121.6182	25.02	-4.63	135861.320	1.5	218085.880	.5
121.2794	28.01	-3.20	55299.650	4.5	137755.870	4.5	121.6189	29.01	-3.06	66418.520	2.0	148642.600	2.0
121.2802	23.02	-1.87	27727.800	3.5	110181.470	2.5	121.6238	26.02	-2.35	118163.560	2.0	200384.280	3.0
121.2822	30.02	-1.76	217655.800	3.0	300108.100	3.0	121.6357	29.01	-2.36	66418.520	2.0	148631.200	3.0
121.2849	23.02	-1.99	16374.700	2.5	98825.190	3.5	121.6406	29.02	-2.87	63143.600	2.5	145353.000	1.5
121.2904	26.02	-3.48	119982.260	1.0	202429.040	1.0	121.6423	25.02	-3.62	135858.960	2.5	218067.190	2.5
121.2955	28.01	-2.91	55299.650	4.5	137742.950	5.5	121.6458	25.02	-4.72	135861.320	1.5	218067.190	2.5
121.2962	26.02	-3.57	35803.700	2.0	118246.520	3.0	121.6482	28.01	-3.65	56371.410	3.5	138575.690	2.5
121.2970	30.02	-9.90	217655.800	3.0	300098.100	4.0	121.6523	30.02	-1.07	220668.300	2.0	302869.800	3.0
121.3002	12.03	-1.12	597589.900	.5	680030.000	1.5	121.6583	25.02	-2.69	135869.760	3.5	218067.190	2.5
121.3034	8.03	.58	514220.400	1.5	596658.300	2.5	121.6607	15.00	-5.76	0.000	1.5	82195.800	1.5
121.3156	27.02	-3.98	73861.800	1.5	156291.400	2.5	121.6620	25.03	-3.78	112013.300	3.0	194208.200	3.0
121.3186	9.02	-4.31	414894.890	4.5	497322.460	3.5	121.6636	25.02	-2.96	32307.300	3.5	114501.180	4.5
121.3192	30.02	-1.17	217655.800	3.0	300083.000	3.0	121.6648	25.01	-9.09	0.000	3.0	82193.040	2.0
121.3196	8.03	.32	514371.300	.5	596798.200	1.5	121.6659	28.01	-3.42	56371.410	3.5	138563.710	3.5
121.3216	9.02	-4.37	414897.720	3.5	497323.250	2.5	121.6758	14.02	-3.60	175230.010	0.0	257415.600	1.0
121.3236	17.01	-2.78	27877.800	0.0	110302.000	1.0	121.6795	13.03	-4.44	688653.000	1.0	770836.100	1.0
121.3254	25.02	-2.68	135692.170	3.5	218115.150	3.5	121.6795	13.03	-4.44	688653.000	1.0	770836.100	1.0
121.3293	30.02	-2.76	217655.800	3.0	300075.100	2.0	121.6830	25.02	-4.71	136796.610	2.5	218977.340	3.5
121.3300	28.01	-2.76	53634.620	1.5	136054.500	1.5	121.6831	15.01	-4.19	21576.200	0.0	103756.900	1.0
121.3302	20.02	-6.67	277380.860	2.0	359800.570	3.0	121.6842	26.02	-4.02	117521.910	4.0	199701.820	3.0
121.3305	25.01	-9.75	0.000	3.0	82419.480	3.0	121.6879	28.01	-4.05	51557.850	3.5	133735.260	2.5
121.3358	28.01	-2.68	53634.620	1.5	136050.530	2.5	121.6884	28.01	-3.00	51557.850	3.5	133734.980	3.5
121.3397	26.02	-3.09	84671.870	3.0	167085.120	3.0	121.6905	27.02	-2.06	56794.800	1.5	138970.500	1.5
121.3422	28.01	-3.20	57080.550	3.5	139492.100	2.5	121.6912	25.02	-4.87	136421.500	5.5	218596.690	5.5
121.3464	26.02	-3.38	87901.870	3.0	170310.600	3.0	121.6932	26.02	-3.06	119982.260	1.0	202156.130	2.0
121.3480	28.01	-4.30	55299.650	4.5	137707.260	3.5	121.6973	25.02	-4.65	135944.080	4.5	218115.150	3.5
121.3515	25.02	-3.86	135709.900	2.5	218115.150	3.5	121.7106	18.02	-2.46	157031.400	1.0	239193.480	1.0
121.3515	25.01	-3.00	27589.030	2.0	109994.300	1.0	121.7157	30.02	-1.67	220668.300	2.0	302827.000	2.0
121.3538	23.03	-2.30	153918.700	3.0	236322.400	2.0	121.7178	28.01	-1.85	51557.850	3.5	133715.130	4.5
121.3541	26.02	-3.97	57221.700	4.0	139625.170	4.0	121.7234	25.02	-4.12	136823.860	3.5	218977.340	3.5
121.3579	27.02	-2.12	56373.800	2.5	138774.700	2.5	121.7248	14.02	-3.72	175263.100	1.0	257415.600	1.0
121.3588	28.01	-3.42	51045.460	4.5	133445.750	4.5	121.7248	14.02	-3.25	175263.100	1.0	257415.600	1.0
121.3591	24.02	-3.90	25848.200	1.0	108248.300	1.0	121.7266	28.01	-4.33	54176.260	.5	136327.550	1.5
121.3631	30.02	-1.78	217655.800	3.0	300053.200	2.0	121.7268	28.01	-4.52	56424.490	1.5	138575.690	2.5
121.3639	28.01	-2.50	53634.620	1.5	136031.430	2.5	121.7422	29.01	-2.78	66418.520	2.0	148559.300	2.0
121.3673	26.02	-3.75	140196.330	7.0	222590.860	7.0	121.7431	30.02	-2.57	137866.400	2.0	220006.600	1.0
121.3728	28.01	-3.62	23108.280	2.5	105499.050	3.5	121.7438	20.02	-2.50	277380.860	2.0	359520.600	2.0
121.3731	26.02	-4.58	77102.430	2.0	159493.000	3.0	121.7594	29.02	-2.12	62065.000	3.5	144194.200	2.5
121.3776	25.01	-9.80	0.000	3.0	82387.530	3.0	121.7610	26.02	-2.91	84369.920	2.0	166498.000	3.0
121.3848	25.02	-3.27	135732.500	4.5	218115.150	3.5	121.7625	23.02	-4.36	27727.800	3.5	109854.870	3.5
121.3912	28.01	-3.38	52738.450	2.5	135116.720	2.5	121.7653	26.02	-6.58	34812.400	0.0	116937.570	1.0
121.3960	25.02	-3.65	135692.170	3.5	218067.190	2.5	121.7702	15.03	-4.04	257520.200	1.0	339642.100	1.0
121.4026	10.01	-4.42	224699.270	.5	307069.810	1.5	121.7743	15.03	-3.56	257520.200	1.0	339639.300	2.0
121.4092	25.01	-4.43	31661.720	3.0	114027.800	4.0	121.7784	25.02	-3.37	135858.960	2.5	217975.300	2.5
121.4107	28.01	-2.40	51557.850	3.5	133922.910	4.5	121.7811	28.01	-3.42	54176.260	.5	136290.830	.5
121.4113	28.01	-2.07	55417.830	3.5	137782.500	4.5	121.7819	25.02	-3.50	135861.320	1.5	217975.300	2.5
121.4114	25.01	-4.99	31661.720	3.0	114026.300	3.0	121.7844	15.00	-1.58	0.000	1.5	82112.300	2.5
121.4123	26.02	-4.02	50295.200	3.0	132659.170	4.0	121.7940	28.01	-3.56	25036.380	2.5	107142.210	.5
121.4145	26.02	-2.92	117521.910	4.0	199884.390	5.0	121.7945	25.02	-4.40	135869.760	3.5	217975.300	2.5
121.4145	28.02	-4.13	54657.900	4.0	137020.400	5.0	121.7978	29.01	-3.59	66418.520	2.0	148521.800	1.0
121.4152	28.01	-2.20	52738.450	2.5	135100.450	3.5	121.8029	25.01	-5.96	0.000	3.0	82099.820	4.0
121.4184	26.02	-4.51	35803.700	2.0	118163.560	2.0	121.8045	26.02	-4.84	118557.250	5.0	200656.020	6.0
121.4191	28.01	-3.85	32499.530	4.5	114858.880	5.5	121.8061	25.02	-3.30	135709.900	2.5	217807.570	1.5
121.4201	28.01	-2.07	55417.830	3.5	137776.550	3.5	121.8085	25.02	-4.91	136500.630	6.5	218596.690	5.5
121.4222	25.02	-3.82	135709.900	2.5	218067.190	2.5	121.8242	30.02	-8.85	218040.500	3.0	300126.000	4.0
121.4254	27.02	-6.21	24236.800	1.5	106591.900	1.5	121.8257	30.02	-2.80	218041.500	4.0	300126.000	4.0
121.4270	28.01	-3.62	24788.200	1.5	107142.210	1.5	121.8276	27.02	-4.89	55729.200	3.5	137812.400	3.5
121.4350	28.01	-3.10	53634.620	1.5	135983.220	1.5	121.8295	30.02	-7.72	218041.500	4.0	300123.400	5.0
121.4384	9.02	-2.45	360348.280	.5	442694.580	1.5	121.8333	14.02	-4.93	175336.260	2.0	257415.600	1.0
121.4400	17.01	-5.60	11653.500	2.0	93998.700	1.0	121.8333	14.02	-3.76	175336.260	2.0	257415.600	1.0
121.4409	28.01	-3.58	53037.930	2.5	135382.530	1.5	121.8333	14.02	-3.01	175336.260	2.0	257415.600	1.0
121.4418	23.03	-2.65	144273.100	2.0	226617.100	1.0	121.8338	26.02	-2.25	118246.520	3.0	200325.560	4.0
121.4419	27.01	-6.58	0.000	4.0	82343.900	4.0	121.8423	23.03	-9.31	155565.500	1.0	237638.800	2.0
121.4499													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
121.9381	23.02	-2.38	16374.700	2.5	98383.530	2.5	122.2906	20.02	-1.46	282571.430	1.0	364343.850	1.0
121.9404	30.02	-3.55	218041.500	4.0	300048.800	5.0	122.2931	28.01	-4.53	55617.830	3.5	137188.580	4.5
121.9408	26.02	-4.94	42896.900	3.0	124903.920	2.0	122.2942	24.03	-1.69	178036.000	4.5	259806.000	5.5
121.9417	9.01	-3.38	207703.790	2.0	289710.200	2.0	122.2960	28.01	-2.24	54262.630	3.5	136031.430	2.5
121.9474	9.01	-2.63	207703.790	2.0	289706.330	3.0	122.2968	26.02	-4.96	118557.250	5.0	200325.560	4.0
121.9477	28.01	-1.79	52205.950	3.5	134208.300	2.5	122.2982	28.01	-2.11	52205.950	3.5	133973.330	2.5
121.9531	26.01	-4.16	1872.600	4.5	83871.310	4.5	122.3020	30.02	-7.71	221143.700	3.0	302908.500	4.0
121.9604	25.01	-5.43	0.000	3.0	81993.850	4.0	122.3023	8.02	-1.80	368526.370	1.0	450291.000	1.0
121.9615	25.02	-3.30	136823.860	3.5	218816.970	2.5	122.3025	15.00	-2.51	0.000	1.5	81764.500	1.5
121.9635	26.02	-3.04	142047.000	4.0	224038.730	5.0	122.3089	9.02	-3.22	384493.060	1.5	466253.240	1.5
121.9651	24.02	-4.39	17850.000	2.0	99840.700	3.0	122.3183	20.02	-9.95	281139.550	1.0	362893.470	2.0
121.9761	24.02	-3.92	56992.200	3.0	138975.500	3.0	122.3275	28.01	-4.71	55018.710	2.5	136766.490	2.5
121.9801	25.02	-1.09	32307.300	3.5	114287.910	2.5	122.3304	26.02	-3.13	142312.900	3.0	224058.700	4.0
121.9811	27.02	-3.06	56794.800	1.5	138774.700	2.5	122.3313	28.01	-3.47	53037.930	2.5	134783.140	2.5
121.9872	27.02	-2.64	73726.600	2.5	155702.400	1.5	122.3375	11.02	-4.54	411548.200	2.5	493289.300	1.5
121.9879	26.02	-4.38	118350.240	4.0	200325.560	4.0	122.3410	26.02	-4.01	142312.900	3.0	224051.630	3.0
121.9945	27.01	-5.35	0.000	4.0	81970.900	5.0	122.3459	8.02	-3.30	297557.500	1.0	379293.000	2.0
122.0074	28.01	-3.93	54557.050	4.5	136519.280	4.5	122.3462	28.01	-2.89	53365.170	4.5	135100.450	3.5
122.0082	23.02	-1.91	15550.300	.5	97512.000	1.5	122.3512	26.02	-2.55	120697.100	1.0	202429.040	1.0
122.0150	26.02	-4.37	42896.900	3.0	124854.040	3.0	122.3515	23.02	-1.86	16330.500	1.5	98062.220	1.5
122.0182	26.04	-4.99	196845.000	4.0	278800.000	3.0	122.3517	25.02	-3.44	63143.600	2.5	144875.200	1.5
122.0258	27.02	-5.31	23058.800	2.5	105008.700	3.5	122.3566	27.02	-5.52	24236.800	1.5	105965.100	2.5
122.0277	25.02	-3.12	135858.960	2.5	217807.570	1.5	122.3596	25.03	-3.86	112013.300	3.0	193739.600	2.0
122.0312	25.02	-4.04	135861.320	1.5	217807.570	1.5	122.3599	30.02	-1.36	221143.700	3.0	302869.800	3.0
122.0358	29.01	-4.80	66418.520	2.0	148361.700	1.0	122.3639	28.01	-2.28	54262.630	3.5	135986.060	3.5
122.0385	26.02	-4.77	118442.920	3.0	200384.280	3.0	122.3688	9.02	-3.63	387523.470	3.5	469243.660	4.5
122.0388	28.01	-2.44	55018.710	2.5	136959.860	2.5	122.3745	26.02	-4.70	118721.600	2.0	200437.940	2.0
122.0405	25.04	-4.91	183528.000	2.5	265468.000	2.5	122.3770	28.01	-1.50	54262.630	3.5	135977.310	4.5
122.0416	28.01	-3.45	56075.260	2.5	138014.530	2.5	122.3794	17.01	-2.64	11653.500	2.0	93366.600	2.0
122.0423	28.01	-4.52	54262.630	3.5	136201.460	3.5	122.3812	24.02	-3.87	56650.500	2.0	138362.400	2.0
122.0455	28.01	-3.68	55299.650	4.5	137236.280	3.5	122.3821	25.02	-1.72	32383.700	2.5	114094.970	1.5
122.0499	27.02	-2.84	57036.800	.5	138970.500	1.5	122.3831	8.02	-1.32	368526.370	1.0	450237.000	2.0
122.0521	27.02	-4.37	55729.200	3.5	137661.400	4.5	122.3836	25.02	-1.87	32384.700	1.5	114094.970	1.5
122.0521	23.02	-1.29	15579.800	1.5	97512.000	1.5	122.3844	25.02	-4.23	136796.610	2.5	218506.390	3.5
122.0530	28.01	-1.87	52738.450	2.5	134670.070	1.5	122.3854	26.02	-2.24	118686.250	4.0	200395.330	5.0
122.0580	25.02	-4.58	136888.700	1.5	218816.970	2.5	122.3880	8.02	-1.32	368583.630	2.0	450291.000	1.0
122.0601	28.01	-4.03	55037.930	2.5	134964.780	1.5	122.3896	14.01	-2.21	42932.680	1.5	124639.000	.5
122.0637	14.03	-3.61	254127.080	2.5	336051.550	2.5	122.3971	28.01	-4.07	56075.260	2.5	137776.550	3.5
122.0637	14.03	-2.46	254127.080	2.5	336051.550	1.5	122.4020	26.02	-4.52	118686.250	4.0	200384.280	3.0
122.0666	14.03	-2.31	254129.030	3.5	336051.550	2.5	122.4028	28.01	-1.59	54262.630	3.5	135960.080	4.5
122.0681	26.02	-2.87	40999.870	2.0	122921.370	1.0	122.4053	25.03	-3.28	130969.630	3.0	212665.300	4.0
122.0703	26.02	-3.90	50184.900	2.0	132104.940	2.0	122.4100	26.02	-3.12	50412.300	2.0	132104.940	2.0
122.0731	28.01	-2.22	55018.710	2.5	136936.820	3.5	122.4126	25.02	-2.54	32404.000	.5	114094.970	1.5
122.0872	25.02	-3.45	136796.610	2.5	218705.250	2.5	122.4177	23.02	-7.76	16374.700	2.5	98062.220	1.5
122.0938	25.02	-1.58	32383.700	2.5	114287.910	2.5	122.4240	30.02	-2.56	221143.700	3.0	302827.000	2.0
122.0947	28.01	-2.22	52738.450	2.5	134642.090	3.5	122.4245	14.01	-7.71	42932.680	1.5	124615.700	1.5
122.0953	25.02	-2.32	32484.700	1.5	114287.910	2.5	122.4252	25.02	-3.97	136823.860	3.5	218506.390	3.5
122.0957	25.01	-6.98	27570.950	5.0	109473.900	4.0	122.4263	28.01	-1.70	54262.630	3.5	135944.400	3.5
122.0976	25.02	-3.98	32307.300	3.5	114209.010	3.5	122.4301	25.02	-3.85	137137.690	1.5	218816.970	2.5
122.1017	26.02	-2.73	40999.870	2.0	122898.840	2.0	122.4321	27.01	-7.10	950.300	3.0	82628.200	3.0
122.1035	26.02	-3.28	436.200	3.0	82333.920	3.0	122.4372	8.02	-2.94	297557.500	1.0	379232.000	1.0
122.1076	26.02	-4.65	50184.900	2.0	132079.910	3.0	122.4476	26.02	-4.16	50412.300	2.0	132079.910	3.0
122.1080	9.02	-2.71	384358.540	.5	466253.240	1.5	122.4485	16.00	-3.13	0.000	2.0	81667.000	1.0
122.1141	25.01	-6.51	27583.300	4.0	109473.900	4.0	122.4515	16.00	-1.96	0.000	2.0	81665.000	2.0
122.1149	15.00	-1.64	0.000	1.5	81890.100	2.5	122.4519	30.02	-3.54	221143.700	3.0	302808.400	4.0
122.1161	11.02	-4.31	411963.900	1.5	493853.200	1.5	122.4550	26.02	-4.28	118721.600	2.0	200384.280	3.0
122.1166	28.01	-4.70	55299.650	4.5	137188.580	4.5	122.4555	16.00	-1.21	0.000	2.0	81662.300	3.0
122.1209	28.01	-2.45	51557.850	3.5	133443.890	2.5	122.4597	25.01	-8.08	0.000	3.0	81659.500	3.0
122.1215	25.01	-6.74	27588.230	3.0	109473.900	4.0	122.4613	20.02	-1.69	282571.430	1.0	364229.890	0.0
122.1255	24.04	-4.21	237568.000	3.0	319451.000	3.0	122.4689	8.02	-2.06	368583.630	2.0	450237.000	2.0
122.1260	26.02	-2.71	118442.920	3.0	200325.560	4.0	122.4759	26.02	-2.71	118355.010	6.0	200003.700	7.0
122.1274	20.02	-3.07	281139.550	1.0	363021.270	2.0	122.4783	28.01	-4.12	52205.950	3.5	133853.040	4.5
122.1279	25.02	-3.43	136823.860	3.5	218705.250	2.5	122.4789	26.02	-3.38	88663.870	4.0	170310.600	3.0
122.1279	28.01	-4.14	8393.900	4.5	90275.300	3.5	122.4795	29.02	-2.44	67016.600	3.5	148662.900	2.5
122.1290	28.01	-1.97	55018.710	2.5	136899.340	2.5	122.4817	28.01	-2.79	52205.950	3.5	133850.830	3.5
122.1326	28.01	-4.97	54176.260	.5	136054.500	1.5	122.4824	28.01	-4.33	54557.050	4.5	136201.460	3.5
122.1346	25.02	-4.38	134286.000	5	216162.900	1.5	122.4835	28.01	-3.39	23796.180	1.5	105439.850	1.5
122.1349	28.01	-1.35	55018.710	2.5	136895.360	3.5	122.4843	28.01	-3.01	56371.410	3.5	138014.530	2.5
122.1364	12.03	-1.43	996527.300	2.5	678403.000	2.5	122.4900	28.01	-4.68	54262.630	3.5	135901.960	2.5
122.1409	25.02	-3.84	136796.610	2.5	218699.260	1.5	122.4900	26.02	-4.06	118686.250	4.0	200325.560	4.0
122.1410	28.01	-3.40	23796.180	1.5	105668.780	2.5	122.4967	14.01	-1.18	42932.680	1.5	124567.500	2.5
122.1489	13.03	-1.51	681635.500	3.0	763502.800	2.0	122.5026	7.00	-1.76	28839.306	1.5	110470.244	2.5
122.1489	13.03	-1.51	681635.500	3.0	763502.800	2.0	122.5063	26.02	-3.50	40999.870	2.0	122628.340	2.0
122.1555	25.01	-6.74	0.000	3.0	81862.840	4.0	122.5078	26.02	-4.35	77102.430	2.0	158729.890	3.0
122.1839	9.02	-3.78	360435.080	1.5	442278.930	2.5	122.5104	25.02	-4.73	134286.000	.5	215911.730	1.5
122.1849	26.02	-3.36	40999.870	2.0	122843.030	1.0	122.5203	13.03	-1.86	685732.800	2.0	767351.900	3.0
122.1887	27.02	-3.18	73861.800	1.5	155702.400	1.5	122.5203	13.03	-1.86	685732.800	2.0	767351.900	3.0
122.1899	24.02	-4.98	18581.60										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
122.6008	26.02	-3.12	436.200	3.0	82001.730	2.0
122.6060	7.00	-2.05	28839.306	1.5	110401.356	2.5
122.6111	28.02	-3.53	55406.100	3.0	136964.800	3.0
122.6117	26.02	-3.08	118246.520	3.0	199804.810	4.0
122.6143	7.00	-3.77	28838.920	.5	110395.463	1.5
122.6149	7.00	-2.21	28839.306	1.5	110395.463	1.5
122.6190	24.02	-2.70	57422.100	4.0	138975.500	3.0
122.6204	28.01	-2.74	32499.530	4.5	114052.040	3.5
122.6208	8.02	-1.30	368684.750	3.0	450237.000	2.0
122.6214	26.02	-4.89	63486.780	4.0	145038.610	3.0
122.6215	25.02	-3.77	136823.860	3.5	218375.610	4.5
122.6226	26.02	-3.80	118355.010	6.0	199906.030	6.0
122.6237	26.02	-2.75	84671.870	3.0	166222.200	4.0
122.6278	28.02	-4.46	62606.300	3.0	144153.900	4.0
122.6289	7.00	-2.80	28838.920	.5	110395.795	.5
122.6294	7.00	-3.10	28839.306	1.5	110385.795	.5
122.6333	25.02	-4.69	29167.700	2.5	110711.620	3.5
122.6351	30.02	-1.88	218540.300	2.0	300083.000	3.0
122.6361	28.01	-3.76	55417.830	3.5	136959.860	2.5
122.6387	28.01	-4.73	14995.570	2.5	96535.700	3.5
122.6418	28.01	-2.89	23108.280	2.5	104646.520	3.5
122.6418	26.02	-3.65	118163.560	2.0	199701.820	3.0
122.6455	30.02	-1.37	218540.300	2.0	300076.100	2.0
122.6474	25.02	-4.74	137282.400	2.5	218816.970	2.5
122.6480	26.02	-3.78	118350.240	4.0	199884.390	5.0
122.6492	28.01	-3.81	24835.930	.5	106369.300	1.5
122.6519	25.02	-4.56	137137.690	1.5	218669.260	1.5
122.6527	23.03	.24	144273.100	2.0	225804.100	2.0
122.6533	18.02	-3.86	33267.000	0.0	114797.600	1.0
122.6552	26.02	-4.20	118355.010	6.0	199884.390	5.0
122.6586	28.01	-3.28	29593.460	.5	111120.540	1.5
122.6600	30.02	-1.57	221343.600	2.0	302869.800	3.0
122.6623	9.01	-2.90	207699.070	1.0	289223.730	1.0
122.6624	28.01	-3.28	8393.900	4.5	89918.470	4.5
122.6625	25.02	-3.91	134638.390	1.5	216162.900	1.5
122.6661	15.00	-1.59	0.000	1.5	81522.100	2.5
122.6663	26.01	-3.54	2837.940	2.5	84359.900	1.5
122.6666	27.02	-4.31	47003.100	3.5	128524.900	2.5
122.6667	9.01	-4.19	207702.040	0.0	289223.730	1.0
122.6694	9.01	-2.77	207703.790	2.0	289223.730	1.0
122.6704	16.01	-1.36	24524.900	.5	106044.160	.5
122.6708	28.01	-2.81	55417.830	3.5	136936.820	3.5
122.6724	24.02	-1.57	18581.600	4.0	100099.500	4.0
122.6738	20.01	-3.68	0.000	.5	81517.000	1.5
122.6741	9.02	-4.59	387726.840	4.5	469243.660	4.5
122.6745	26.02	-3.28	142535.070	2.0	224051.630	3.0
122.6760	28.01	-2.86	58493.210	2.5	140008.760	3.5
122.6775	9.02	-2.86	387726.840	4.5	469241.410	5.5
122.6797	14.01	.04	42824.350	.5	124337.400	.5
122.6800	30.02	-2.66	218540.300	2.0	300053.200	2.0
122.6827	7.00	-3.91	28838.920	.5	110350.014	.5
122.6833	7.00	-2.17	28839.306	1.5	110350.014	.5
122.6877	14.01	-1.18	43107.970	2.5	124615.700	1.5
122.6934	25.03	-1.84	131462.500	5.0	212966.500	5.0
122.6957	28.01	-3.31	29070.930	1.5	110573.360	2.5
122.6962	26.02	-4.01	63466.390	5.0	144968.500	4.0
122.6978	14.01	.04	42824.350	.5	124325.400	1.5
122.7024	20.01	-3.84	0.000	.5	81498.000	.5
122.7066	25.03	-2.11	131170.100	4.0	212665.300	4.0
122.7067	28.01	-4.76	57080.550	3.5	138575.690	2.5
122.7070	28.01	-5.21	24788.200	1.5	106283.160	2.5
122.7230	25.02	-3.48	136888.700	1.5	218373.000	1.5
122.7233	25.02	-3.11	136823.860	3.5	218307.980	2.5
122.7238	7.00	-1.79	28838.920	.5	110322.721	1.5
122.7244	30.02	-2.07	221343.600	2.0	302827.000	2.0
122.7244	7.00	-2.83	28839.306	1.5	110322.721	1.5
122.7247	28.01	-3.12	57080.550	3.5	138563.710	3.5
122.7261	8.02	-1.98	368684.750	3.0	450167.000	3.0
122.7263	28.01	-2.37	53634.620	1.5	135116.720	2.5
122.7375	25.03	-4.09	111506.000	1.0	192980.700	1.0
122.7407	16.01	-1.53	24571.600	1.5	106044.160	.5
122.7438	25.03	-4.81	112408.900	4.0	193879.400	5.0
122.7470	30.02	-3.03	218540.300	2.0	300008.700	1.0
122.7476	24.03	.63	178036.000	4.5	259504.000	4.5
122.7486	28.01	-2.58	13550.390	3.5	95017.710	4.5
122.7495	29.02	-3.21	63886.300	1.5	145353.000	1.5
122.7551	18.02	-4.95	144892.950	3.0	226355.960	2.0
122.7555	28.01	-2.20	55417.830	3.5	136880.560	4.5
122.7586	7.00	-3.31	28839.306	1.5	110299.974	2.5
122.7589	26.02	-3.10	76956.790	3.0	158417.310	2.0
122.7603	14.01	.19	43107.970	2.5	124567.500	2.5
122.7611	26.02	-2.60	120697.100	1.0	202156.130	2.0
122.7667	26.02	-3.78	118246.520	3.0	199701.820	3.0
122.7792	7.00	-1.73	28839.306	1.5	110286.305	2.5
122.7812	18.02	-2.83	204563.530	1.0	286009.210	2.0
122.7879	26.01	-4.11	2430.080	3.5	83871.310	4.5
122.7881	23.02	-2.35	103034.650	4.5	184475.800	4.5
122.7919	26.01	-3.25	2430.080	3.5	83868.650	2.5
122.7937	25.02	-3.91	136935.600	.5	218373.000	1.5
122.7937	16.00	-3.21	0.000	2.0	81437.400	1.0
122.7978	26.02	-2.91	50276.100	4.0	131710.790	5.0
122.7978	23.02	-1.49	28746.800	2.5	110181.470	2.5
122.8007	26.01	-6.79	1872.600	4.5	83305.370	3.5
122.8013	24.01	-9.25	0.000	2.5	81432.360	3.5
122.8052	25.03	-2.23	130969.500	3.0	212399.300	3.0
122.8137	9.02	-4.47	387259.280	1.5	468683.430	2.5
122.8156	25.02	-4.60	137282.400	2.5	218705.250	2.5
122.8169	17.02	-5.45	18053.000	1.5	99475.000	.5
122.8196	28.01	-3.54	54557.050	4.5	135977.310	4.5
122.8210	25.02	-4.70	136888.700	1.5	218307.980	2.5
122.8316	20.02	-1.31	279741.800	2.0	361154.070	2.0
122.8319	28.02	-4.49	55952.000	2.0	137364.100	1.0
122.8324	26.02	-4.43	115474.250	6.0	196886.010	6.0
122.8334	28.01	-2.48	56371.410	3.5	137782.500	4.5
122.8349	14.03	-1.21	218766.860	.5	299676.950	.5
122.8392	26.02	-3.69	115474.250	6.0	196881.470	7.0
122.8407	7.00	-3.74	28838.920	.5	110245.183	.5
122.8413	7.00	-4.04	28839.306	1.5	110245.183	.5
122.8424	28.01	-2.61	56371.410	3.5	137776.550	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
122.8430	14.01	-.66	42932.680	1.5	124337.400	.5
122.8456	28.01	-4.34	54557.050	4.5	135960.080	4.5
122.8465	15.00	-2.55	0.000	1.5	81402.400	2.5
122.8517	28.01	-2.93	54557.050	4.5	135956.010	5.5
122.8537	24.02	-2.86	20702.000	3.0	102099.600	4.0
122.8578	28.01	-3.18	23108.280	2.5	104503.220	2.5
122.8598	27.01	-5.92	950.300	3.0	82343.900	4.0
122.8611	14.01	.15	42932.680	1.5	124325.400	1.5
122.8657	24.02	-1.20	18451.000	2.0	99840.700	3.0
122.8660	27.02	-4.66	47415.400	2.5	128804.900	1.5
122.8688	11.02	-3.89	414281.000	2.5	495668.600	2.5
122.8692	28.01	-4.37	54557.050	4.5	135944.400	3.5
122.8700	25.02	-3.89	137282.400	2.5	218669.260	1.5
122.8738	25.02	-3.22	136796.610	2.5	218180.900	1.5
122.8738	14.01	.44	42932.680	1.5	124317.000	2.5
122.8766	28.01	-4.02	56371.410	3.5	137753.870	4.5
122.8785	7.00	-4.37	28838.920	.5	110220.107	1.5
122.8791	7.00	-2.25	28839.306	1.5	110220.107	1.5
122.8868	26.02	-3.34	87901.870	3.0	169277.600	4.0
122.8907	7.00	-2.02	28839.306	1.5	110212.396	2.5
122.8951	24.02	-2.87	56992.200	3.0	138362.400	2.0
122.8966	25.02	-1.13	32307.300	3.5	113676.530	2.5
122.9034	25.03	.72	167300.300	3.0	248665.000	4.0
122.9051	28.01	-4.54	53601.190	1.5	134964.780	1.5
122.9077	26.02	-3.45	118442.920	3.0	199804.810	4.0
122.9085	14.02	-1.96	176487.190	1.0	257848.500	2.0
122.9106	18.02	-2.55	204649.240	2.0	286009.210	2.0
122.9175	7.00	-2.41	28839.306	1.5	110194.654	1.5
122.9232	26.02	-3.53	118350.240	4.0	199701.820	3.0
122.9275	26.02	-3.33	118557.250	5.0	199906.030	6.0
122.9306	26.02	-5.49	40999.870	2.0	122346.610	3.0
122.9374	12.02	-1.41	467378.500	1.0	548720.700	1.0
122.9379	26.02	-3.37	148915.300	1.0	230257.150	2.0
122.9383	14.01	.72	43107.970	2.5	124449.600	3.5
122.9470	28.01	-3.43	56371.410	3.5	137707.260	3.5
122.9478	28.01	-4.25	56371.410	3.5	137706.710	2.5
122.9514	28.01	-5.07	25036.380	2.5	106369.300	1.5
122.9514	26.02	-3.64	148915.300	1.0	230248.260	1.0
122.9542	12.03	-.82	597071.900	1.5	678403.000	2.5
122.9548	24.02	-1.67	18510.000	3.0	99840.700	3.0
122.9559	26.02	-2.55	120826.170	2.0	202156.130	2.0
122.9569	28.01	-3.93	52738.450	2.5	134067.760	1.5
122.9602	26.02	-4.28	118557.250	5.0	199884.390	5.0
122.9628	11.02	-4.22	411963.900	1.5	493289.300	1.5
122.9630	28.02	-2.81	75646.900	4.0	156927.200	3.0
122.9678	28.01	-2.02	52205.950	3.5	133528.020	3.5
122.9687	10.01	-3.03	224087.020	1.5	305408.510	.5
122.9732	25.02	-4.18	136796.610	2.5	218115.150	3.5
122.9786	9.02	-4.66	387367.920	2.5	468682.910	3.5
122.9787	26.02	-2.73	77102.430	2.0	158417.310	2.0
122.9791	28.01	-4.01	52738.450	2.5	134053.050	2.5
122.9820	27.02	-7.07	16977.600	4.5	98290.300	4.5
122.9837	10.01	-2.37	224087.020	1.5	305398.620	1.5
122.9879	28.01	-4.81	55018.710	2.5	136327.550	1.5
122.9894	13.03	-1.07	685732.800	2.0	767040.600	1.0
122.9894	13.03	-1.07	685732.800	2.0	767040.600	1.0
122.9900	15.00	-1.73	0.000	1.5	81300.800	1.5
123.0015	6.01	-1.00	96493.740	.5	177793.540	1.5
123.0112	28.01	-1.78	53365.170	4.5	134658.600	4.5
123.0121	25.02	-1.57	32383.700	2.5	113676.530	2.5
123.0136	25.02	-2.48	32384.700	1.5	113676.530	2.5
123.0144	25.02	-6.55	136823.860	3.5	218115.150	3.5
123.0213	29.01	-2.49	67196.390	1.0	149203.100	0.0
123.0302	6.01	-1.30	96493.740	.5	177774.590	.5
123.0319	25.01	-6.46	0.000	3.0	81279.710	4.0
123.0350	12.03	-.79	596527.300	2.5	677805.000	1.5
123.0362	28.01	-2.14	53365.170	4.5	134642.090	3.5
123.0381	23.02	-1.93	102961.280	3.5	184236.900	4.5
123.0416	25.02	-4.21	134638.390	1.5	215911.730	1.5
123.0422	25.03	-4.58	112882.800	5.0	194155.700	6.0
123.0427	30.02	-1.45	140071.000	1.0	221343.600	2.0
123.0445	16.00	-1.95	395.560	1.0	81667.000	1.0
123.0462	25.03	-4.61	111710.400	2.0	192980.700	1.0
123.0475	16.00	-1.48	395.560	1.0	81665.000	2.0
123.0543	7.00	-2.52	28838.920	.5	110103.834	1.5
123.0544	26.02	-7.08	35803.700	2.0	117068.560	3.0
123.0549	7.00	-1.96	28839.306	1.5	110103.834	1.5
123.0575	26.02	-3.38	738.900	2.0	82001.730	2.0
123.0616	26.02	-3.31	50184.900	2.0	131445.030	2.0
123.0631	24.02	-4.45	18581.600	4.0	99840.700	3.0
123.0634	26.02	-4.72	118442.920	3.0	199701.820	3.0
123.0634	28.02	-4.41	62606.300	3.0	143865.200	3.0
123.0716	28.01	-3.47	32499.530	4.5	113753.040	4.5
123.0779	28.01	-1.17	53365.170	4.5	134614.550	5.5
123.0784	38.01	-6.30	0.000	0.0	81249.025	0.0
123.0795	24.02	-1.32	20851.300	4.0	102099.600	4.0
123.0795	14.03	-.91	218428.670	1.5	299676.950	.5
123.0806	26.02	-3.86	118557.250	5.0	199804.810	4.0
123.0818	28.01	-6.00	25036.380	2.5	106283.160	2.5
123.0840	25.02	-4.69	136935.600	.5	218180.900	1.5
123.0870	25.02	-3.61	136823.860	3.5	218067.190	2.5
123.0884	26.01	-3.21	3117.480	1.5	84359.900	1.5
123.0887	28.01	-1.58	53365.170	4.5	134607.370	4.5
123.0918	25.01	-4.40	32787.600	4.0	114027.800	4.0
123.0918	38.01	-6.50	0.000	0.0	81240.180	0.0
123.0932	26.02	-4.53	115642.230	7.0	196881.470	7.0
123.0933	25.01	-3.53	32787.600	4.0	114026.800	5.0
123.0938	25.02	-3.55	136888.700	1.5	218127.590	.5
123.0966	28.02	-3.74	61339.200	4.0	142576.200	5.0
123.0974	20.02	-.71	281882.240	2.0	363118.750	3.0
123.0992	25.02	-3.34	137137.690	1.5	218373.000	1.5
123.1003	28.01	-3.60	24788.200	1.5	106022.790	.5
123.1028	24.01	-9.98	0.000	2.5	81232.910	2.5
123.1030	18.02	-4.35	204649.240	2.0	285882.000	1.0
123.1038	28.01	-1.67	53365.170	4.5	134597.430	5.5
123.1060	25.02	-4.63	29167.700	2.5	110398.500	2.5
123.1080	28.01	-3.63	35253.540	3.5	113753.040	4.5
123.1084	25.03	-3.14	131170.100	4.0	212399.300	3.0
123.1163	25.02	-4.75	137282.400	2.5	218506.390	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
123.1178	15.01	-1.08	21576.200	0.0	102799.200	1.0	123.3908	24.02	-1.37	20702.000	3.0	101745.300	3.0
123.1215	25.01	-9.79	0.000	3.0	81220.580	3.0	123.3910	25.02	-4.14	137137.690	1.5	218180.900	1.5
123.1229	28.01	-4.78	55299.650	4.5	136519.280	4.5	123.3913	30.02	-0.90	137866.400	2.0	218909.400	1.0
123.1258	25.02	-3.78	137599.200	3.5	218816.970	2.5	123.3931	25.02	-4.81	137935.530	4.5	218977.340	3.5
123.1263	14.01	-0.88	43107.970	2.5	124325.400	1.5	123.3931	16.00	-3.54	395.560	1.0	81437.400	1.0
123.1348	18.02	-2.28	204797.370	3.0	286009.210	2.0	123.3989	14.02	-3.32	153377.050	1.0	234415.070	0.0
123.1390	14.01	-0.08	43107.970	2.5	124317.000	2.5	123.3993	23.02	-2.43	102961.280	3.5	183999.000	3.5
123.1429	28.02	-2.00	75646.900	4.0	156853.400	3.0	123.3995	9.02	-3.55	360348.280	5.5	441385.880	1.5
123.1433	25.02	-3.15	114209.010	3.5	195415.200	4.5	123.4023	28.01	-2.78	55018.710	2.5	136054.500	1.5
123.1445	25.01	-4.41	32818.100	0.0	114023.500	1.0	123.4069	26.02	-3.65	50412.300	2.0	131445.030	2.0
123.1463	26.02	-2.49	120826.170	2.0	202030.380	3.0	123.4083	28.01	-2.80	55018.710	2.5	136050.530	2.5
123.1485	25.03	-2.93	131462.500	5.0	212665.300	4.0	123.4096	27.01	-6.69	1597.200	2.0	82628.200	3.0
123.1493	23.02	-3.57	103034.650	4.5	184236.900	4.5	123.4100	26.01	-3.17	2837.940	2.5	83868.650	2.5
123.1555	26.02	-3.80	118686.250	4.0	199884.390	5.0	123.4150	16.01	-0.02	24571.600	1.5	105599.020	1.5
123.1570	25.02	-3.53	136888.700	1.5	218085.880	5.5	123.4178	25.02	-4.85	137282.400	2.5	218307.980	2.5
123.1576	7.00	-2.53	28838.920	5.5	110039.720	5.5	123.4184	26.02	-2.92	76956.790	3.0	157982.000	3.0
123.1581	7.00	-2.44	28839.306	1.5	110035.720	5.5	123.4208	22.02	-3.58	0.000	2.0	81023.600	2.0
123.1586	28.01	-4.08	9330.040	3.5	90526.180	2.5	123.4239	26.02	-2.35	121008.780	3.0	202030.380	3.0
123.1587	26.02	-4.34	142855.590	4.0	224051.630	3.0	123.4300	7.00	-4.17	28838.920	5.5	109856.520	1.5
123.1649	25.02	-3.35	136935.600	5.5	218127.590	5.5	123.4301	25.02	-4.67	135944.080	4.5	216961.620	3.5
123.1657	28.01	-3.22	52738.450	2.5	133929.880	3.5	123.4306	7.00	-3.33	28839.306	1.5	109856.520	1.5
123.1703	25.01	-4.12	32836.400	1.0	114024.800	2.0	123.4331	26.02	-4.65	118686.250	4.0	199701.820	3.0
123.1723	25.01	-4.42	32836.400	1.0	114023.500	1.0	123.4333	27.01	-9.94	4028.900	4.0	85044.300	3.0
123.1726	28.01	-2.86	24835.930	5.5	106022.790	5.5	123.4373	28.02	-4.16	55952.000	2.0	136964.800	3.0
123.1764	27.01	-7.13	4950.000	2.0	86134.400	1.0	123.4374	28.01	-2.26	55018.710	2.5	136031.430	2.5
123.1770	25.04	-3.05	183528.000	2.5	264712.000	1.5	123.4397	20.02	-1.79	281882.240	2.0	362893.470	2.0
123.1799	26.02	-2.78	77075.300	1.0	158257.370	1.0	123.4401	25.02	-3.85	136796.610	2.5	217807.570	1.5
123.1801	28.01	-4.39	53601.190	1.5	134783.140	2.5	123.4407	14.02	-3.02	153377.050	1.0	234387.640	1.0
123.1808	23.02	-2.52	16330.500	1.5	97512.000	1.5	123.4492	25.02	-5.10	29167.700	2.5	110172.690	1.5
123.1810	25.02	-2.62	114501.180	4.5	195682.500	5.5	123.4585	28.01	-2.99	58493.210	2.5	139492.100	2.5
123.1850	25.02	-4.92	136796.610	2.5	217975.300	2.5	123.4617	28.01	-3.16	52738.450	2.5	133735.260	2.5
123.1853	25.02	-4.80	136888.700	1.5	218067.190	2.5	123.4621	28.01	-3.05	52738.450	2.5	133734.980	3.5
123.1910	26.02	-4.77	141539.550	6.0	222714.300	6.0	123.4722	25.02	-4.98	137137.690	1.5	218127.590	5.5
123.1959	28.01	-3.69	55417.830	3.5	136589.350	3.5	123.4723	11.02	-4.69	412201.500	5.5	493191.300	5.5
123.1962	26.02	-5.88	35803.700	2.0	116975.050	2.0	123.4737	29.02	-3.73	63886.300	1.5	144875.200	1.5
123.1969	25.01	-3.71	32856.950	3.0	114027.800	4.0	123.4869	26.02	-4.59	118721.600	2.0	199701.820	3.0
123.1977	28.01	-2.63	53037.930	2.5	134208.300	2.5	123.4981	7.00	-2.75	28839.306	1.5	109812.233	5.5
123.1978	25.02	-3.91	137137.690	1.5	218307.980	2.5	123.5063	9.02	-3.09	360348.280	5.5	441315.800	5.5
123.1992	25.01	-4.26	32856.950	3.0	114026.300	3.0	123.5066	28.01	-1.98	55018.710	2.5	135986.060	3.5
123.2021	25.01	-3.89	32858.840	2.0	114026.300	3.0	123.5083	26.02	-4.06	57221.700	4.0	138187.930	3.0
123.2032	30.02	-3.81	218909.400	1.0	300076.100	2.0	123.5096	25.02	-5.41	29207.300	5.5	110172.690	1.5
123.2044	25.01	-4.27	32858.840	2.0	114024.800	2.0	123.5109	28.01	-2.20	55018.710	2.5	135983.220	1.5
123.2046	11.02	-2.04	414281.000	2.5	495446.800	3.5	123.5112	23.02	-4.00	103034.650	4.5	183999.000	3.5
123.2065	28.01	-3.87	52738.450	2.5	133903.000	1.5	123.5117	28.01	-4.12	52205.950	3.5	133169.920	3.5
123.2102	28.01	-3.79	53496.490	5.5	136458.600	4.5	123.5124	28.01	-4.64	58493.210	2.5	139456.750	1.5
123.2103	28.01	-2.16	53365.170	4.5	134527.240	3.5	123.5238	9.02	-4.93	387726.840	4.5	468682.910	3.5
123.2119	28.01	-4.88	56075.260	2.5	137236.280	3.5	123.5266	28.02	-4.07	62606.300	3.0	143560.500	2.0
123.2178	25.02	-4.95	29241.400	1.5	110398.500	2.5	123.5317	25.02	-4.61	138245.090	5.5	219195.950	4.5
123.2202	28.01	-3.14	13950.390	3.5	94705.930	3.5	123.5318	9.02	-3.11	360435.080	1.5	441385.880	1.5
123.2202	28.01	-4.23	57420.160	2.5	138575.690	2.5	123.5403	28.01	-3.34	9330.040	3.5	90275.300	3.5
123.2211	26.02	-3.09	77102.430	2.0	158257.370	1.0	123.5482	27.02	-5.00	47864.800	5.5	128804.900	1.5
123.2211	9.02	-1.92	416168.300	1.5	497323.250	2.5	123.5513	22.02	-3.00	0.000	2.0	80938.020	1.0
123.2259	27.01	-6.71	4560.800	3.0	85712.600	2.0	123.5553	28.01	-3.05	53037.930	2.5	133973.330	2.5
123.2259	28.02	-3.79	63472.600	2.0	144624.400	1.0	123.5575	28.01	-2.66	57080.550	3.5	138014.530	2.5
123.2264	25.02	-4.31	136823.860	3.5	217975.300	2.5	123.5616	25.02	-4.71	29241.400	1.5	110172.690	1.5
123.2283	26.02	-4.13	142908.480	5.0	224058.700	4.0	123.5637	27.01	-8.59	5204.500	1.0	86134.400	1.0
123.2322	25.01	-8.02	0.000	3.0	81147.650	2.0	123.5643	25.02	-4.75	137137.690	1.5	218067.190	2.5
123.2326	26.02	-2.55	121008.780	3.0	202156.130	2.0	123.5702	28.01	-2.59	55018.710	2.5	135944.080	3.5
123.2380	30.02	-2.34	218909.400	1.0	300053.200	2.0	123.5758	25.04	-2.06	184633.000	3.5	265555.400	3.5
123.2384	28.01	-3.32	57420.160	2.5	138563.710	3.5	123.5772	9.02	-4.56	384493.060	1.5	465414.140	2.5
123.2452	20.02	-2.04	281882.240	2.0	363021.270	2.0	123.5790	26.02	-6.78	40999.870	2.0	121919.740	3.0
123.2471	9.02	-3.08	416185.420	2.5	497323.250	2.5	123.5833	28.02	-4.07	76237.800	3.0	157154.900	2.0
123.2479	23.02	-1.33	16374.700	2.5	97512.000	1.5	123.5840	25.02	-3.88	135246.270	2.5	216162.900	2.5
123.2483	9.02	-1.79	416185.420	2.5	497322.460	3.5	123.5858	29.01	-2.48	69867.810	2.0	150782.600	2.0
123.2531	26.02	-6.61	35803.700	2.0	116937.570	1.0	123.5930	26.02	-2.09	121008.780	3.0	201919.530	4.0
123.2586	26.02	-4.46	142908.480	5.0	224038.730	5.0	123.5930	25.02	-4.57	135781.090	5.5	216691.830	5.5
123.2683	25.01	-9.56	9472.970	2.0	90596.800	2.0	123.5984	25.02	-4.09	137599.200	3.5	218506.390	3.5
123.2684	28.01	-3.42	52738.450	2.5	133862.210	1.5	123.6100	20.02	-2.43	278621.010	1.0	359520.600	2.0
123.2688	15.00	-3.18	0.000	1.5	81123.500	2.5	123.6117	25.02	-4.71	137282.400	2.5	218180.900	1.5
123.2764	26.02	-4.89	118686.250	4.0	199804.810	4.0	123.6122	28.01	-4.00	14995.570	2.5	95893.760	1.5
123.2767	28.01	-1.72	53037.930	2.5	134156.280	1.5	123.6186	24.02	-4.48	20851.300	4.0	101745.300	3.0
123.2771	28.01	-4.89	53496.490	5.5	134614.550	5.5	123.6282	25.03	-1.98	119445.500	2.0	200333.200	3.0
123.2880	28.01	-1.99	53496.490	5.5	134607.370	4.5	123.6329	28.01	-2.60	56075.260	2.5	136959.860	2.5
123.2923	23.02	-1.85	28746.800	2.5	109854.870	3.5	123.6350	25.02	-4.19	138312.700	4.5	219195.950	4.5
123.2954	25.02	-4.26	137599.200	3.5	218705.250	2.5	123.6350	28.01	-2.33	55018.710	2.5	135901.960	2.5
123.2970	24.02	-0.34	20994.600	5.0	102099.600	4.0	123.6378	26.02	-2.94	57221.700	4.0	138103.120	4.0
123.3024	28.01	-3.44	55417.830	3.5	136519.280	4.5	123.6389	9.02	-3.41	360435.080	1.5	441315.800	5.5
123.3031	2												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
123.7182	25.02	-5.01	29207.300	.5	110036.140	.5
123.7200	12.03	-1.85	596527.300	2.5	677355.000	1.5
123.7221	27.02	-4.89	47698.600	1.5	128524.900	2.5
123.7244	28.01	-3.96	25036.380	2.5	105861.190	2.5
123.7255	28.01	-2.19	56075.260	2.5	136899.340	2.5
123.7280	28.01	-3.42	32499.530	4.5	113321.950	4.5
123.7316	28.01	-1.52	56075.260	2.5	136895.360	3.5
123.7325	25.01	-2.50	38366.070	2.0	119185.600	3.0
123.7331	9.02	-1.52	360348.280	.5	441167.400	.5
123.7400	3.01	-4.45	501816.000	0.0	582630.611	0.0
123.7426	28.01	-4.11	53037.930	2.5	133850.830	3.5
123.7466	9.02	-1.77	360348.280	.5	441158.600	1.5
123.7468	15.00	-6.49	0.000	1.5	80810.200	1.5
123.7598	28.01	-3.03	25036.380	2.5	105838.060	3.5
123.7619	26.02	-5.01	42896.900	3.0	123697.180	2.0
123.7648	28.01	-3.68	32523.540	3.5	113321.950	4.5
123.7704	25.02	-5.17	29241.400	1.5	110036.140	.5
123.7788	29.02	-1.29	67016.600	3.5	147805.900	3.5
123.7797	26.02	-2.16	121241.670	4.0	202030.380	3.0
123.7836	28.01	-3.27	58705.950	1.5	139492.100	2.5
123.7875	28.01	-4.10	55617.830	3.5	136201.460	3.5
123.7939	27.02	-7.66	17766.200	3.5	98545.600	3.5
123.7973	28.01	-3.23	56075.260	2.5	136852.440	1.5
123.8083	26.04	-2.63	187162.000	3.0	267932.000	4.0
123.8145	30.02	-3.39	219360.000	4.0	300126.000	4.0
123.8145	10.04	-4.24	741730.000	1.0	822496.000	1.0
123.8145	10.04	-4.72	741730.000	1.0	822496.000	2.0
123.8185	30.02	-1.39	219360.000	4.0	300123.400	5.0
123.8197	27.01	-7.85	4950.000	2.0	85712.600	2.0
123.8284	23.03	-2.30	155565.500	1.0	236322.400	2.0
123.8318	29.02	-1.75	62065.000	3.5	142819.700	3.5
123.8372	26.01	-4.04	3117.480	1.5	83868.650	2.5
123.8378	28.01	-4.62	58705.950	1.5	139456.750	1.5
123.8419	30.02	-3.71	219360.000	4.0	300108.100	3.0
123.8425	25.02	-4.68	135944.080	4.5	216691.830	5.5
123.8517	24.02	-4.60	20702.000	3.0	101443.700	2.0
123.8539	26.02	-3.44	119697.640	2.0	200437.940	2.0
123.8573	30.02	-1.83	219360.000	4.0	300098.100	4.0
123.8629	28.02	-3.94	76237.800	3.0	156972.200	3.0
123.8642	28.01	-5.08	13550.390	3.5	94283.940	4.5
123.8649	12.03	-2.75	597071.900	1.5	677805.000	1.5
123.8661	9.02	-1.83	360435.080	1.5	441167.400	.5
123.8674	26.02	-3.50	149525.630	2.0	230257.150	2.0
123.8735	26.02	-3.59	76956.790	3.0	157684.300	2.0
123.8755	29.01	-3.43	67916.390	1.0	148642.600	2.0
123.8796	9.02	-1.14	360435.080	1.5	441158.600	1.5
123.8804	30.02	-2.69	219360.000	4.0	300083.000	3.0
123.8810	26.02	-4.56	149525.630	2.0	230248.260	1.0
123.8810	7.04	-4.51	0.000	0.0	80722.620	0.0
123.8883	26.02	-4.10	143320.850	6.0	224038.730	5.0
123.8883	28.02	-3.11	75123.800	5.0	155841.700	4.0
123.8914	28.01	-2.19	54262.630	3.5	134978.670	2.5
123.8978	28.02	-4.89	53703.700	5.0	136415.400	4.0
123.9016	10.01	-2.82	224699.270	.5	305408.510	.5
123.9023	25.02	-4.28	137599.200	3.5	218307.980	2.5
123.9049	28.01	-3.17	23796.180	1.5	104503.220	2.5
123.9056	28.01	-4.06	8393.900	4.5	89100.490	3.5
123.9074	28.01	-3.04	52738.450	2.5	133443.890	2.5
123.9127	28.01	-2.05	57080.550	3.5	137782.500	4.5
123.9167	10.01	-2.90	224699.270	.5	305398.620	1.5
123.9219	28.01	-2.17	57080.550	3.5	137776.550	3.5
123.9240	25.02	-1.42	32383.700	2.5	113078.340	1.5
123.9255	25.02	-1.54	32384.700	1.5	113078.340	1.5
123.9292	28.01	-3.63	56075.260	2.5	136766.490	2.5
123.9329	30.02	-2.70	140654.800	3.0	221343.600	2.0
123.9329	30.02	-4.16	219360.000	4.0	300048.800	5.0
123.9334	25.02	-4.89	137908.200	5.5	218596.690	5.5
123.9339	16.00	-1.75	395.560	1.0	81083.730	1.0
123.9366	28.01	-3.22	55299.650	4.5	135986.060	3.5
123.9370	16.00	-1.28	395.560	1.0	81081.730	2.0
123.9425	28.01	-1.88	53601.190	1.5	134283.760	.5
123.9486	23.03	-3.06	146117.700	1.0	226796.300	2.0
123.9488	25.02	-4.34	137436.700	4.5	218115.150	3.5
123.9497	26.02	-1.84	121241.670	4.0	201919.530	4.0
123.9501	28.01	-1.51	55299.650	4.5	135977.310	4.5
123.9552	25.02	-2.27	32404.000	.5	113078.340	1.5
123.9558	30.02	-3.09	137866.400	2.0	218540.300	2.0
123.9567	28.01	-3.61	57080.550	3.5	137753.870	4.5
123.9571	15.00	-6.56	0.000	1.5	80673.100	.5
123.9591	26.02	-5.42	35803.700	2.0	116475.440	3.0
123.9620	25.02	-4.80	137137.690	1.5	217807.570	1.5
123.9661	26.02	-2.97	149525.630	2.0	230192.860	3.0
123.9674	27.02	-6.42	22720.300	5.5	103386.700	4.5
123.9688	25.02	-3.98	135246.270	2.5	215911.730	1.5
123.9701	25.02	-3.45	138312.700	4.5	218977.340	3.5
123.9765	28.01	-2.55	55299.650	4.5	135960.080	4.5
123.9828	28.01	-.99	55299.650	4.5	135956.010	5.5
123.9835	12.02	-1.39	467378.500	1.0	548034.400	0.0
123.9856	20.02	-2.16	281139.550	1.0	361794.080	1.0
123.9900	28.01	-3.08	24788.200	1.5	105439.850	1.5
123.9914	26.02	-3.24	121241.670	4.0	201892.440	5.0
123.9925	12.01	-3.53	0.000	.5	80650.020	1.5
123.9960	25.02	-4.48	137660.240	3.5	218307.980	2.5
123.9974	20.02	-.79	279741.800	2.0	360388.680	3.0
124.0000	8.02	-2.56	300440.850	2.0	381086.000	1.0
124.0006	28.01	-2.22	55299.650	4.5	135944.400	3.5
124.0035	29.01	-1.60	67916.390	1.0	148559.300	2.0
124.0039	25.01	-2.35	38542.960	3.0	119185.600	3.0
124.0055	13.03	-.46	681635.500	3.0	762277.100	3.0
124.0055	13.03	-.46	681635.500	3.0	762277.100	3.0
124.0130	25.02	-4.70	138340.620	2.5	218977.340	3.5
124.0179	13.03	.18	682869.300	1.0	763502.800	2.0
124.0179	13.03	.18	682869.300	1.0	763502.800	2.0
124.0192	28.01	-3.11	55417.830	3.5	136050.530	2.5
124.0196	28.01	-4.44	25036.380	2.5	105668.780	2.5
124.0284	28.01	-2.97	57080.550	3.5	137706.710	2.5
124.0292	28.01	-3.77	57080.550	3.5	137706.710	2.5
124.0393	26.02	-3.78	63466.390	5.0	144085.970	4.0
124.0395	12.01	-3.83	0.000	.5	80619.500	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
124.0453	26.02	-5.94	35803.700	2.0	116419.390	2.0
124.0455	28.02	-3.61	76237.800	3.0	156853.400	3.0
124.0483	26.02	-4.07	88663.870	4.0	169277.600	4.0
124.0485	28.01	-3.88	55417.830	3.5	136031.430	2.5
124.0493	26.02	-3.50	89697.520	3.0	170310.600	3.0
124.0525	28.02	-2.23	97841.400	2.0	178452.400	3.0
124.0525	28.02	-1.38	97841.400	2.0	178452.400	2.0
124.0556	26.02	-3.39	77075.300	1.0	157684.300	2.0
124.0582	28.01	-4.06	53634.620	1.5	134241.960	.5
124.0585	28.01	-4.45	53601.190	1.5	134208.300	2.5
124.0612	29.01	-2.85	67916.390	1.0	148521.800	1.0
124.0634	28.01	-3.01	24835.930	.5	105439.850	1.5
124.0649	24.03	-4.95	104265.000	2.5	184868.000	3.5
124.0710	26.01	-7.60	13474.430	2.5	94073.460	3.5
124.0736	30.02	-.58	140071.000	1.0	220668.300	2.0
124.0743	27.02	-6.59	23058.800	2.5	103655.700	1.5
124.0781	28.01	-2.05	57420.160	2.5	138014.530	2.5
124.0818	26.02	-4.60	63494.000	3.0	144085.970	4.0
124.0830	13.03	-.50	690244.900	0.0	770836.100	1.0
124.0830	13.03	-.50	690244.900	0.0	770836.100	1.0
124.0873	28.01	-2.74	56371.410	3.5	136959.860	2.5
124.0873	28.01	-3.38	9330.040	3.5	89918.470	4.5
124.0955	23.03	-4.12	155565.500	1.0	236148.600	1.0
124.0958	26.02	-3.79	88694.670	5.0	169277.600	4.0
124.0974	26.02	-3.34	77102.430	2.0	157684.300	2.0
124.1036	28.01	-3.31	14995.570	2.5	95573.390	3.5
124.1059	26.02	-7.65	35803.700	2.0	116380.070	1.0
124.1144	25.02	-4.85	137935.530	4.5	218506.390	3.5
124.1184	28.01	-1.78	55417.830	3.5	135986.060	3.5
124.1227	28.01	-1.78	56371.410	3.5	136936.820	3.5
124.1297	27.02	-4.99	55729.200	3.5	136290.100	3.5
124.1319	28.01	-3.15	55417.830	3.5	135977.310	4.5
124.1386	28.01	-2.41	53601.190	1.5	134156.280	1.5
124.1483	15.00	-3.09	0.000	1.5	80548.800	2.5
124.1546	28.01	-2.44	23108.280	2.5	103653.030	3.5
124.1567	28.01	-3.88	54557.050	4.5	135100.450	3.5
124.1576	27.01	-6.55	0.000	4.0	80542.800	3.0
124.1584	28.01	-1.31	55417.830	3.5	135960.080	4.5
124.1628	25.01	-4.13	29889.310	3.0	110428.700	4.0
124.1684	20.02	-2.76	278621.010	1.0	359156.830	1.0
124.1690	28.01	-3.10	56424.490	1.5	136959.860	2.5
124.1698	27.02	-6.63	23058.800	2.5	103593.700	2.5
124.1761	28.01	-2.92	56424.490	1.5	136955.280	.5
124.1819	26.02	-4.72	89783.590	4.0	170310.600	3.0
124.1826	28.01	-2.62	55417.830	3.5	135944.400	3.5
124.1855	27.02	-8.12	22720.300	5.5	103245.000	5.5
124.1864	27.02	-8.64	17766.200	3.5	98290.300	4.5
124.1867	28.01	-4.62	56371.410	3.5	136895.360	3.5
124.1912	10.04	-1.13	741975.000	2.0	822496.000	2.0
124.1912	10.04	-.35	741975.000	2.0	822496.000	1.0
124.1912	10.04	-1.07	741975.000	2.0	822496.000	3.0
124.1943	9.01	-4.30	215069.590	2.0	295588.610	1.0
124.1959	29.01	-2.88	66418.520	2.0	146936.480	2.0
124.1969	15.00	-2.38	0.000	1.5	80517.300	2.5
124.1980	18.02	-4.87	144885.970	2.0	225402.590	3.0
124.2018	28.02	-4.27	53703.700	5.0	134217.800	5.0
124.2019	28.01	-3.64	56075.260	2.5	136589.350	3.5
124.2022	26.01	-5.84	13474.430	2.5	93988.300	2.5
124.2045	26.01	-1.80	15844.710	4.5	96357.070	3.5
124.2051	26.04	-2.36	186736.000	2.0	267248.000	3.0
124.2073	16.00	-1.63	573.190	0.0	81083.730	1.0
124.2095	28.01	-1.26	56371.410	3.5	136880.560	4.5
124.2111	27.01	-8.06	5204.500	1.0	85712.600	2.0
124.2167	28.02	-4.81	56308.200	1.0	136812.700	2.0
124.2176	8.03	-1.53	419533.900	1.5	500037.800	1.5
124.2245	23.03	-1.06	146117.700	1.0	226617.100	1.0
124.2259	25.03	.61	167890.000	2.0	248388.600	3.0
124.2307	11.02	-2.10	415173.200	1.5	495668.600	2.5
124.2389	28.01	-3.47	53073.930	2.5	133528.020	3.5
124.2407	30.02	-1.02	140654.800	3.0	221143.700	3.0
124.2434	8.03	-.58	149550.600	2.5	500037.800	1.5
124.2481	28.01	-2.39	55417.830	3.5	135901.960	2.5
124.2491	27.01	-6.42	4560.800	3.0	85044.300	3.0
124.2584	25.01	-8.14	9472.970	2.0	89950.400	3.0
124.2601	25.02	-4.96	138340.620	2.5	218816.970	2.5
124.2624	28.01	-1.46	56424.490	1.5	136899.340	2.5
124.2624	28.01	-4.68	56424.490	1.5	136899.330	1.5
124.2684	24.03	.61	177926.000	3.5	258397.000	4.5
124.2692	25.02	-4.71	138234.790	1.5	218705.250	2.5
124.2712	25.02	-4.18	135246.270	2.5	215715.410	1.5
124.2733	29.01	-3.83	66418.520	2.0	146886.310	1.0
124.2739	25.02	-4.04	137908.200	5.5	218375.610	4.5
124.2739	26.01	-4.22	2837.940	2.5	83305.370	3.5
124.2745	17.02	-4.97	18053.000	1.5	98520.000	2.5
124.2771	20.02	-3.41	279741.800	2.0	360207.160	2.0
124.2800	7.04	-.81	0.000	0.0	80463.670	0.0
124.2812	28.01	-4.70	25036.380	2.5	105499.050	3.5
124.2838	8.03	-.83	419533.900	1.5	499994.900	.5
124.2876	26.02	-4.80	63425.170	6.0	143883.740	5.0
124.2914	28.02	-2.50	97996.300	3.0	178452.400	2.0
124.2914	28.02	-1.27	97996.300	3.0	178452.400	3.0
124.2920	26.02	-4.63	119982.260	1.0	200437.940	2.0
124.2932	25.02	-4.62	137660.240	3.5	218115.150	3.5
124.2944	25.02	-4.85	138362.800	3.5	218816.970	2.5
124.2949	27.02	-4.69	46438.300	4.5	126892.100	3.5
124.2997	26.02	-2.39	121468.820	5.0	201919.530	4.0
124.3011	20.02	-.89	282571.430	1.0	363021.270	2.0
124.3063	9.02	-4.24	384493.060	1.5	464939.500	2.5
124.3081	29.01	-1.70	67916.390	1.0	148361.700	1.0
124.3092	28.01	-1.97	53365.170	4.5	133809.760	3.5
124.3118	27.02	-6.06	23058.800	2.5	103501.700	3.5
124.3146	30.02	-1.52	219684.900	3.0	300126.000	4.0
124.3161	25.02	-4.46	137935.530	4.5	218375.610	4.5
124.3171	7.00	-1.47	19224.464	2.5	99663.912	1.5
124.3179	7.00	-.31	19224.464	2.5	99663.427	2.5
124.3258	26.02	-3.94	116467.410	4.0	196901.270	5.0
124.3269	28.01	-4.60	53634.620	1.5	134067.760	1.5
124.3306	7.00	-.50	19233.177	1.5	99663.912	1.5
124.3313	7.00	-1.46	19233.177	1.5	99663.427	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
124.3349	28.01	-1.75	56424.490	1.5	136852.440	1.5	124.7147	15.00	-1.98	0.000	1.5	80183.000	2.5
124.3376	15.00	-2.31	0.000	1.5	80426.200	1.5	124.7148	10.02	-2.64	356776.520	0.0	436959.490	1.0
124.3416	26.02	-1.49	121468.820	5.0	201892.440	5.0	124.7148	10.02	-3.80	356776.520	2.0	436959.490	1.0
124.3422	30.02	-2.15	219684.900	3.0	300108.100	3.0	124.7150	16.00	-1.54	0.000	2.0	80182.830	2.0
124.3465	24.01	-8.67	0.000	2.5	80420.430	2.5	124.7170	25.02	-4.52	138635.460	2.5	218816.970	2.5
124.3513	26.02	-4.19	63466.390	5.0	143883.740	5.0	124.7171	16.00	-1.79	0.000	2.0	80181.440	3.0
124.3577	30.02	-2.56	219684.900	3.0	300098.100	4.0	124.7200	25.02	-3.33	137935.530	4.5	218115.150	3.5
124.3618	28.01	-3.67	10115.660	2.5	90526.180	2.5	124.7200	25.01	-8.16	14901.180	1.0	95080.760	1.0
124.3623	24.02	-3.26	17272.800	4.0	97683.000	3.0	124.7206	25.01	-4.90	29889.310	3.0	110068.500	2.0
124.3721	23.03	-1.66	146117.700	1.0	226521.600	0.0	124.7272	26.02	-4.63	143883.740	5.0	224058.700	4.0
124.3727	28.01	-3.97	25036.380	2.5	105439.850	1.5	124.7286	30.02	-1.67	137866.400	2.0	218040.500	3.0
124.3739	26.02	-2.57	89907.850	4.0	170310.600	3.0	124.7303	15.00	-1.90	0.000	1.5	80173.000	.5
124.3781	10.03	-4.01	525017.000	2.5	605417.000	3.5	124.7328	28.01	-2.12	53037.930	2.5	133209.300	2.5
124.3810	30.02	-2.39	219684.900	3.0	300083.000	3.0	124.7370	6.02	-1.57	102351.000	0.0	182519.675	0.0
124.3821	28.02	-4.12	62606.300	3.0	143003.700	4.0	124.7505	10.04	-2.22	742336.000	3.0	822496.000	3.0
124.3828	26.02	-4.84	63486.780	4.0	143883.740	5.0	124.7505	10.04	.08	742336.000	3.0	822496.000	2.0
124.3843	28.01	-1.88	54262.630	3.5	134658.600	4.5	124.7511	28.01	-3.95	10115.660	2.5	90275.300	3.5
124.3848	8.02	-3.26	300310.310	1.0	380706.000	2.0	124.7555	29.01	-2.73	66418.520	2.0	146575.300	2.0
124.3868	26.01	-8.34	15844.710	4.5	96239.100	4.5	124.7571	28.01	-3.21	57080.550	3.5	137236.280	3.5
124.3896	28.02	-3.59	63472.600	2.0	143865.200	3.0	124.7583	26.02	-4.62	143883.740	5.0	224038.730	5.0
124.3917	30.02	-2.88	219684.900	3.0	300076.100	2.0	124.7585	26.02	-3.42	86847.110	2.0	167002.000	2.0
124.4091	11.02	-4.57	411548.200	2.5	491928.200	3.5	124.7622	13.03	.04	680862.900	1.0	761015.400	2.0
124.4099	28.01	-1.94	54262.630	3.5	134642.090	3.5	124.7622	13.03	.04	680862.900	1.0	761015.400	2.0
124.4105	25.01	-2.24	38806.530	4.0	119185.600	3.0	124.7625	28.01	-3.60	53037.930	2.5	133190.190	1.5
124.4108	28.01	-3.61	51045.460	4.5	131424.320	5.5	124.7672	25.01	-4.90	29919.220	2.0	110068.500	2.0
124.4212	28.01	-3.79	53601.190	1.5	133973.330	2.5	124.7689	10.02	-2.11	356766.200	1.0	436914.390	2.0
124.4219	25.03	-2.85	119961.500	3.0	200333.200	3.0	124.7712	28.02	-3.39	55952.000	2.0	136098.700	1.0
124.4272	30.02	-4.42	219684.900	3.0	300053.200	2.0	124.7752	25.03	.81	168839.700	4.0	248983.800	5.0
124.4292	23.03	-1.40	146429.300	2.0	226796.300	2.0	124.7760	25.02	-3.25	138362.800	3.5	218506.390	3.5
124.4312	28.02	-4.40	54657.900	4.0	135023.600	3.0	124.7837	24.02	-1.85	17167.400	1.0	97306.100	2.0
124.4329	25.02	-4.21	138340.620	2.5	218705.250	2.5	124.7844	25.02	-4.02	138234.790	1.5	218373.000	1.5
124.4380	29.02	-1.09	62065.000	3.5	142426.300	2.5	124.7846	29.01	-3.79	66418.520	2.0	146556.600	3.0
124.4385	24.03	-1.56	178036.000	4.5	258397.000	4.5	124.7849	10.02	-2.76	356776.520	2.0	436914.390	2.0
124.4456	28.01	-2.26	57420.160	2.5	137776.550	3.5	124.7941	28.01	-3.67	53037.930	2.5	133169.920	3.5
124.4460	25.02	-4.86	62988.920	3.5	143345.070	3.5	124.7944	25.02	-3.28	138245.090	5.5	218375.610	4.5
124.4490	25.02	-4.38	138245.090	5.5	218596.690	5.5	124.7980	8.02	-4.38	297557.500	1.0	377687.000	2.0
124.4556	28.01	-2.21	53365.170	4.5	133715.130	4.5	124.7992	28.01	-3.94	51557.850	3.5	131686.560	4.5
124.4625	24.02	-5.22	17272.800	4.0	97618.300	5.0	124.8047	25.01	-5.21	29869.110	2.0	109994.300	1.0
124.4637	28.01	-3.07	54262.630	3.5	134607.370	4.5	124.8048	12.01	-3.20	35669.310	.5	115794.410	1.5
124.4672	25.02	-3.23	138362.800	3.5	218705.250	2.5	124.8113	25.01	-8.28	14959.840	0.0	95080.760	1.0
124.4673	25.02	-4.19	68892.000	3.5	149234.400	2.5	124.8169	25.01	-4.04	29951.120	1.0	110068.500	2.0
124.4679	28.01	-4.04	56424.490	1.5	136766.490	2.5	124.8187	26.02	-4.49	88663.870	4.0	168780.100	5.0
124.4681	25.02	-4.78	138635.460	2.5	218977.340	3.5	124.8212	15.00	-2.10	0.000	1.5	80114.600	1.5
124.4692	8.02	-2.65	300440.850	2.0	380782.000	3.0	124.8257	29.01	-4.00	68447.570	3.0	148559.300	2.0
124.4757	28.01	-3.36	14995.570	2.5	95332.530	2.5	124.8274	26.02	-3.92	121919.740	3.0	202030.380	3.0
124.4775	25.01	-5.63	29869.110	2.0	110204.900	3.0	124.8284	25.04	-4.54	177314.000	2.5	257424.000	1.5
124.4777	11.02	-1.82	417415.500	1.5	497751.200	.5	124.8314	28.01	-4.84	57080.550	3.5	137188.580	4.5
124.4882	25.03	-1.88	119961.500	3.0	200290.400	4.0	124.8345	28.01	-4.20	52205.950	3.5	132311.980	4.5
124.4988	20.02	-3.26	282571.430	1.0	362893.470	2.0	124.8415	28.01	-1.74	54557.050	4.5	134658.600	4.5
124.5016	28.01	-3.87	53634.620	1.5	133954.850	.5	124.8429	28.01	-3.51	53634.620	1.5	133735.260	2.5
124.5021	20.02	-2.52	278621.010	1.0	358940.910	0.0	124.8470	28.01	-2.55	55018.710	2.5	135116.720	2.5
124.5051	11.02	-1.40	414281.000	2.5	494599.000	2.5	124.8470	25.01	-9.99	9472.970	2.0	89571.030	3.0
124.5088	25.01	-4.16	29889.310	3.0	110204.900	3.0	124.8507	12.01	-2.86	35669.310	.5	115764.990	.5
124.5096	25.02	-3.39	137660.240	3.5	217975.300	2.5	124.8528	27.01	-7.12	4950.000	2.0	85044.300	3.0
124.5096	26.01	-6.18	13673.210	1.5	93988.300	2.5	124.8580	15.00	-2.41	0.000	1.5	80091.000	.5
124.5180	12.03	-1.06	596527.300	2.5	676837.000	2.5	124.8603	24.02	-2.00	17528.800	6.0	97618.300	5.0
124.5201	15.00	-2.12	0.000	1.5	80308.300	2.5	124.8610	26.02	-2.94	121941.290	4.0	202030.380	3.0
124.5202	28.01	-4.57	56424.490	1.5	136732.740	1.5	124.8628	28.02	-4.53	63472.600	2.0	143560.500	2.0
124.5208	29.02	-3.70	63886.300	1.5	144194.200	2.5	124.8631	25.02	-2.90	138312.700	4.5	218400.400	3.5
124.5234	26.02	-3.26	57221.700	4.0	137527.920	4.0	124.8654	23.02	-1.86	11966.300	3.5	92052.550	4.5
124.5237	24.02	-1.28	16770.900	0.0	97076.900	1.0	124.8658	26.04	-2.63	187162.000	3.0	267248.000	3.0
124.5337	25.01	-6.84	14781.190	2.0	95080.760	1.0	124.8659	24.02	-4.10	17272.800	4.0	97358.700	4.0
124.5338	15.00	-3.23	0.000	1.5	80299.500	1.5	124.8667	26.02	-3.58	88694.670	5.0	168780.100	5.0
124.5341	13.03	-2.02	687456.800	1.0	767756.100	2.0	124.8673	28.01	-3.45	54557.050	4.5	134642.090	3.5
124.5341	13.03	-2.02	687456.800	1.0	767756.100	2.0	124.8713	28.01	-3.49	58493.210	2.5	138575.690	2.5
124.5342	27.01	-5.73	0.000	4.0	80299.200	4.0	124.8724	28.01	-3.73	55018.710	2.5	135100.450	3.5
124.5512	24.01	-9.16	0.000	2.5	80288.250	1.5	124.8761	13.03	.26	687456.800	1.0	767536.200	2.0
124.5530	28.01	-3.49	57420.160	2.5	137707.260	3.5	124.8761	13.03	.26	687456.800	1.0	767536.200	2.0
124.5543	28.02	-2.44	76237.800	3.0	156524.100	2.0	124.8787	29.01	-1.37	66418.520	2.0	146496.200	3.0
124.5552	25.01	-3.94	29919.220	2.0	110204.900	3.0	124.8828	25.01	-4.42	29919.220	2.0	109994.300	1.0
124.5578	25.02	-2.80	138312.700	4.5	218596.690	5.0	124.8899	28.01	-4.81	58493.210	2.5	138563.710	3.5
124.5592	12.03	-1.63	597071.900	1.5	677355.000	1.5	124.8910	25.02	-4.13	138635.460	2.5	218705.250	2.5
124.5691	28.01	-3.20	54262.630	3.5	134539.370	2.5	124.8915	30.02	-3.44	220006.600	1.0	300076.100	2.0
124.5761	18.02	-4.84	144882.930	1.0	225155.180	1.0	124.8937	10.02	-1.89	356776.520	2.0	436844.630	3.0
124.5808	18.02	-4.77	144885.970	2.0	225155.180	1.0	124.8938	29.01	-2.06	68447.570	3.0	148515.600	4.0
124.5821	28.01	-3.54	53634.620	1.5	133903.000	1.5	124.8948	27.02	-6.98	23434.300	4.5	103501.700	3.5
124.5871	8.02	-1.06	300440.850	2.0	380706.000	2.0	124.8974	28.01	-3.72	54176.260	.5	134241.960	.5
124.5873	18.02	-4.35	144882.930	1.0	225147.930								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
124.9959	24.02	-3.25	16770.900	0.0	96773.500	1.0
124.9967	30.02	-4.81	220006.600	1.0	300008.700	1.0
124.9970	26.02	-3.89	42896.900	3.0	122898.840	2.0
125.0044	29.01	-1.19	66418.520	2.0	146415.700	2.0
125.0142	25.02	-3.13	138605.800	6.5	218596.690	5.5
125.0183	28.02	-3.65	53703.700	5.0	133692.000	5.0
125.0187	26.02	-4.64	57221.700	4.0	137209.730	4.0
125.0193	26.01	-3.34	16369.390	3.5	96357.070	3.5
125.0306	30.02	-1.59	137866.400	2.0	217846.800	2.0
125.0310	26.02	-3.62	50276.100	4.0	130256.270	5.0
125.0322	28.01	-2.95	53634.620	1.5	133613.990	1.5
125.0324	28.01	-2.40	56075.260	2.5	136054.500	1.5
125.0340	26.02	-4.61	121941.290	4.0	201919.930	4.0
125.0361	26.02	-4.96	142855.590	4.0	222832.480	5.0
125.0387	28.01	-3.12	56075.260	2.5	136050.530	2.5
125.0426	26.02	-4.54	144085.970	4.0	224058.700	4.0
125.0466	28.01	-1.68	54557.050	4.5	134527.240	3.5
125.0470	26.02	-3.24	121949.620	5.0	201919.930	4.0
125.0500	16.01	-4.42	0.000	1.5	79968.000	1.5
125.0502	28.01	-4.51	29070.930	1.5	109038.840	1.5
125.0510	25.02	-3.52	138340.620	2.5	218307.980	2.5
125.0537	28.02	-4.84	144085.970	4.0	224051.630	3.0
125.0575	24.02	-2.50	17395.500	5.0	97358.700	4.0
125.0629	28.01	-3.62	55018.710	2.5	134978.470	2.5
125.0671	25.02	-4.24	138128.800	1.5	218085.880	1.5
125.0685	28.01	-2.02	56075.260	2.5	136031.430	2.5
125.0691	25.01	-1.06	9472.970	2.0	89428.600	3.0
125.0744	27.02	-8.47	23434.300	4.5	103386.700	4.5
125.0763	26.02	-4.95	143320.850	6.0	223272.060	6.0
125.0764	26.02	-3.67	121941.290	4.0	201892.440	5.0
125.0843	25.02	-3.56	138234.790	1.5	218180.900	1.5
125.0857	25.02	-3.00	138362.800	3.5	218307.980	2.5
125.0862	28.02	-3.43	55406.100	3.0	135351.000	2.0
125.0894	26.02	-3.35	121949.620	5.0	201892.440	5.0
125.0918	29.01	-2.42	70841.300	3.0	150782.600	2.0
125.0919	23.03	-4.61	146855.100	3.0	226796.300	2.0
125.0927	23.02	-5.60	11769.700	2.5	91710.430	3.5
125.1007	30.02	-9.1	140071.000	1.0	220006.600	1.0
125.1017	26.02	-4.71	144116.640	3.0	224051.630	3.0
125.1053	26.02	-5.05	42896.900	3.0	122829.550	3.0
125.1096	26.02	-4.25	70725.010	3.0	150654.900	3.0
125.1155	26.02	-3.59	70728.750	4.0	150654.900	3.0
125.1229	13.03	-9.98	687834.700	2.0	767756.100	2.0
125.1229	13.03	-9.98	687834.700	2.0	767756.100	2.0
125.1233	26.01	-1.52	13474.430	2.5	93395.600	2.5
125.1355	25.01	-5.00	0.000	3.0	79913.350	4.0
125.1395	28.01	-1.76	56075.260	2.5	135986.060	3.5
125.1404	26.01	-1.97	16369.390	3.5	96279.650	2.5
125.1416	24.02	-1.40	17167.400	1.0	97076.900	1.0
125.1440	28.01	-2.36	56075.260	2.5	135983.220	1.5
125.1539	29.01	-2.17	70841.300	3.0	150742.900	3.0
125.1632	26.02	-3.90	63425.170	6.0	143320.850	6.0
125.1677	25.02	-4.02	138234.790	1.5	218127.590	1.5
125.1698	28.01	-4.45	54176.260	1.5	134067.760	1.5
125.1737	26.04	-2.67	186736.000	2.0	266625.000	2.0
125.1769	26.02	-3.67	90423.680	2.0	170310.600	3.0
125.1856	28.03	-2.58	112144.090	1.5	192025.500	1.5
125.1889	28.01	-2.59	57080.550	3.5	136959.860	2.5
125.1947	25.03	-9.1	169499.200	5.0	249374.800	6.0
125.2039	28.01	-3.43	58705.950	1.5	138575.690	2.5
125.2039	26.01	-4.07	16369.390	3.5	96239.100	4.5
125.2048	28.01	-2.26	56075.260	2.5	135944.400	3.5
125.2092	28.01	-4.56	56424.490	1.5	136290.830	1.5
125.2104	23.02	-2.25	12187.000	4.5	92052.530	4.5
125.2107	9.02	-4.80	384358.540	1.5	464223.930	1.5
125.2155	28.01	-4.79	10663.890	1.5	90526.180	2.5
125.2222	28.01	-4.51	57420.160	2.5	137278.220	1.5
125.2238	26.02	-2.67	88923.070	6.0	168780.100	5.0
125.2249	25.01	-6.64	14325.860	4.0	94182.200	3.0
125.2250	28.01	-2.11	57080.550	3.5	136936.820	3.5
125.2278	26.02	-4.73	63466.390	5.0	143320.850	6.0
125.2278	28.03	-2.04	111755.520	2.5	191610.010	1.5
125.2283	26.01	-2.18	13474.430	2.5	93320.600	1.5
125.2331	25.02	-3.25	138234.790	1.5	218085.880	1.5
125.2387	24.02	-3.27	17272.800	4.0	97120.300	3.0
125.2403	25.02	-4.68	138128.800	1.5	217975.300	2.5
125.2501	25.02	-3.43	138340.620	2.5	218180.900	1.5
125.2530	27.01	-6.97	950.300	3.0	80788.700	2.0
125.2563	26.02	-4.61	142908.480	5.0	222744.790	5.0
125.2583	10.02	-4.55	356776.520	2.0	436611.560	3.0
125.2615	24.02	-5.53	17850.000	2.0	97683.000	2.0
125.2624	24.02	-4.79	138234.790	1.5	218067.190	2.5
125.2692	28.02	-3.32	62606.300	3.0	142434.400	2.0
125.2709	26.02	-4.03	90483.590	3.0	170310.600	3.0
125.2714	28.01	-2.10	56075.260	2.5	135901.960	2.5
125.2719	9.02	-2.84	389737.630	1.5	469564.010	1.5
125.2720	26.02	-5.27	40999.870	2.0	120826.170	2.0
125.2727	26.02	-4.61	142908.480	5.0	222734.330	4.0
125.2736	25.03	-5.08	168839.700	4.0	248665.000	4.0
125.2751	24.02	-5.10	17272.800	4.0	97097.100	1.0
125.2757	9.02	-3.31	389737.630	1.5	469561.580	1.5
125.2771	28.01	-2.67	0.000	2.5	79823.030	3.5
125.2838	28.01	-4.78	57080.550	3.5	136899.340	2.5
125.2858	8.02	-3.71	297557.500	1.0	377375.000	2.0
125.2871	30.02	-2.15	141327.000	4.0	221143.700	3.0
125.2880	28.01	-3.07	57420.160	2.5	137236.280	3.5
125.2965	27.02	-9.95	23434.300	4.5	103245.000	5.5
125.2983	26.02	-3.09	122346.610	3.0	202156.130	2.0
125.2987	28.01	-3.99	53634.620	1.5	133443.890	2.5
125.3086	10.03	-4.76	532978.000	1.5	612781.000	1.5
125.3094	25.02	-4.09	138112.700	4.5	218115.150	3.5
125.3120	28.01	-1.78	55299.650	4.5	135100.450	3.5
125.3122	26.02	-3.05	122628.340	2.0	202429.040	1.0
125.3125	25.01	-4.57	0.000	3.0	79800.520	4.0
125.3133	28.01	-1.54	57080.550	3.5	136880.560	4.5
125.3175	30.02	-2.48	137866.400	2.0	217663.700	1.0
125.3177	29.01	-1.28	66418.520	2.0	146215.700	1.0
125.3282	28.02	-3.67	56308.200	1.0	136098.700	1.0
125.3299	30.02	-1.13	137866.400	2.0	217655.800	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
125.3304	16.00	-1.54	395.560	1.0	80184.680	1.0
125.3333	16.00	-1.06	395.560	1.0	80182.830	2.0
125.3370	29.01	-4.25	68730.720	4.0	148515.600	4.0
125.3466	20.02	-1.32	279741.800	2.0	359520.600	2.0
125.3468	6.00	-3.47	10192.630	2.0	89971.300	3.0
125.3469	28.01	-4.37	54176.260	1.5	133954.850	1.5
125.3479	28.01	-3.78	8393.900	4.5	88171.880	4.5
125.3500	3.01	-1.74	501816.000	0.0	581592.625	0.0
125.3533	25.02	-3.23	138340.620	2.5	218115.150	3.5
125.3539	6.00	-9.17	10192.630	2.0	89966.800	3.0
125.3541	6.00	-9.92	10192.630	2.0	89966.660	2.0
125.3597	28.01	-5.10	9330.040	3.5	89100.490	3.5
125.3681	12.03	-7.72	597589.900	1.5	677355.000	1.5
125.3681	12.03	-1.97	597071.900	1.5	676837.000	2.5
125.3736	15.00	-2.26	0.000	1.5	79761.600	2.5
125.3769	27.02	-4.80	47698.600	1.5	127458.100	1.5
125.3794	16.01	-1.11	0.000	1.5	79757.900	1.5
125.3801	28.02	-4.04	54657.900	4.0	134415.400	4.0
125.3856	24.02	-3.05	17167.400	1.0	96921.400	2.0
125.3911	25.02	-4.00	32307.300	3.5	112057.800	3.5
125.3927	25.01	-4.67	30679.240	5.0	110428.700	4.0
125.4011	23.02	-3.35	11966.300	3.5	91710.430	3.5
125.4063	26.02	-1.96	120697.100	1.0	200437.940	2.0
125.4068	25.02	-3.14	138234.790	1.5	217975.300	2.5
125.4114	25.02	-4.03	138635.460	2.5	218373.000	1.5
125.4116	26.02	-4.56	69789.190	1.0	149525.630	2.0
125.4210	26.02	-4.04	42896.900	3.0	122628.340	2.0
125.4284	28.01	-4.19	54176.260	1.5	133903.000	1.5
125.4287	25.02	-4.02	138340.620	2.5	218067.190	2.5
125.4288	26.02	-4.93	144332.210	4.0	224058.700	4.0
125.4353	26.01	-1.52	13673.210	1.5	93395.600	2.5
125.4371	9.02	-4.08	360348.280	1.5	440069.510	1.5
125.4407	20.02	-1.30	282075.150	0.0	361794.080	1.0
125.4469	28.01	-2.75	24788.200	1.5	104503.220	2.5
125.4542	28.01	-4.58	14995.570	2.5	94705.930	3.5
125.4603	26.02	-4.12	144332.210	4.0	224038.730	3.0
125.4636	25.02	-3.07	138362.800	3.5	218067.190	2.5
125.4663	26.02	-4.99	142908.480	5.0	222611.160	5.0
125.4675	26.02	-3.47	82382.870	3.0	162084.800	2.0
125.4680	24.02	-3.80	17395.500	5.0	97097.100	4.0
125.4682	13.03	-2.18	687834.700	2.0	767536.200	2.0
125.4682	13.03	-2.18	687834.700	2.0	767536.200	2.0
125.4716	29.02	-1.36	68963.600	2.5	148662.900	2.5
125.4723	28.01	-2.19	55417.830	3.5	135116.720	2.5
125.4749	26.02	-9.00	40999.870	2.0	120697.100	1.0
125.4760	15.00	-4.74	0.000	1.5	79696.500	1.5
125.4799	26.02	-4.39	142908.480	5.0	222602.500	6.0
125.4847	10.04	-3.36	742805.000	4.0	822496.000	3.0
125.4863	10.03	-4.21	532978.000	1.5	612668.000	.5
125.4896	26.02	-4.54	69837.760	2.0	149525.630	2.0
125.4905	25.03	-2.89	126063.100	4.0	200290.400	4.0
125.4919	23.03	-4.22	161117.700	1.0	225804.100	2.0
125.4926	28.01	-4.13	54176.260	1.5	133862.210	1.5
125.4933	13.02	-1.77	115956.210	2.5	195641.740	1.5
125.4961	26.02	-2.60	122346.610	3.0	202030.380	3.0
125.4969	13.02	-2.72	115958.500	1.5	195641.740	1.5
125.4979	28.01	-2.69	55417.830	3.5	135100.450	3.5
125.4997	28.01	-2.98	54176.260	1.5	133857.730	.5
125.5017	10.02	-1.96	319444.900	1.0	399125.120	0.0
125.5034	28.01	-2.05	56371.410	3.5	136050.530	2.5
125.5077	25.02	-1.88	68892.000	3.5	145668.400	2.5
125.5082	29.02	-2.91	63143.600	2.5	142819.700	3.5
125.5102	27.02	-4.77	55729.200	3.5	135404.000	4.5
125.5113	25.02	-4.43	32383.700	2.5	112057.800	3.5
125.5117	26.02	-4.51	82410.940	2.0	162084.800	2.0
125.5138	25.02	-3.77	138635.460	2.5	218307.980	2.5
125.5150	29.01	-1.68	68850.060	0.0	148521.800	1.0
125.5201	25.02	-7.71	68892.000	3.5	148560.500	4.5
125.5272	14.00	-1.47	0.000	0.0	79664.000	1.0
125.5284	13.02	-2.03	115958.500	1.5	195621.720	.5
125.5315	25.02	-2.69	68899.200	4.5	148560.500	4.5
125.5318	23.03	-2.16	147135.200	2.0	226796.300	2.0
125.5335	28.01	-2.52	56371.410	3.5	136031.430	2.5
125.5408	26.01	-1.21	13673.210	1.5	93328.600	1.5
125.5429	28.03	-3.06	112371.430	1.5	192025.500	.5
125.5445	25.01	-9.47	9472.970	2.0	89126.000	3.0
125.5471	28.01	-4.04	55018.710	2.5	134670.070	1.5
125.5479	26.02	-4.59	68847.110	2.0	166498.000	3.0
125.5687	10.02	-1.45	319444.900	1.0	399082.570	1.0
125.5696	25.01	-5.78	14593.820	3.0	94230.900	2.0
125.5738	28.01	-3.98	23108.280	2.5	102742.740	1.5
125.5738	9.02	-3.63	360435.080	1.5	440069.510	1.5
125.5745	28.03	-1.80	111187.860	3.5	190821.880	2.5
125.5762	25.01	-4.97	30795.750	4.0	110428.700	4.0
125.5808	28.01	-4.43	56424.490	1.5	136054.500	1.5
125.5824	28.01	-4.43	52205.950	3.5	131834.940	2.5
125.5871	28.01	-3.13	56424.490	1.5	136050.530	2.5
125.5913	28.01	-4.36	55018.710	2.5	134642.090	3.5
125.5942	28.02	-4.48	53703.700	5.0	133325.200	4.0
125.6020	26.01	-6.16	7955.240	3.5	87571.800	2.5
125.6050	28.01	-2.23	56371.410	3.5	135986.060	3.5
125.6084	25.02	-4.04	138362.800	3.5	217975.300	2.5
125.6096	26.02	-2.32	120826.170	2.0	200437.940	2.0
125.6100	16.00	-1.42	573.190	0.0	80184.680	1.0
125.6121	28.01	-6.25	25036.380	2.5	104646.520	3.5
125.6153	28.01	-3.41	53601.190	1.5	133209.300	2.5
125.6172	28.01	-3.52	56424.490	1.5	136031.430	2.5
125.6185	26.02	-3.40	17167.400	1.0	96773.500	1.0
125.6188	28.01	-2.29	56371.410	3.5	135977.310	4.5
125.6188	25.01	-1.24	9472.970	2.0	89078.900	2.0
125.6220	28.02	-2.81	76237.800	3.0	155841.700	4.0
125.6348	18.01	-2.46	132481.140	2.5	212076.900	2.5
125.6363	9.02	-2.97	389525.550	1.5	469120.350	1.5
125.6368	24.01	-7.44	11962.000	.5	91556.540	1.5
125.6377	9.02	-1.87	389525.550	1.5	469119.520	2.5
125.6387	27.02	-4.57	47864.800	.5	127458.100	1.5
125.6400	27.01	-6.48	950.300	3.0	80542.800	3.0
125.6429	18.01	-1.16	132481.140	2.5	212071.800	3.5
125.6441	26.02	-4.79	82494.880	1.0	162084.800	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
125.6447	25.01	-5.01	27583.300	4.0	107172.800	3.0	125.9118	9.02	-1.37	387367.920	2.5	466788.600	2.5
125.6453	25.03	-1.80	120603.100	4.0	200192.200	5.0	125.9146	27.02	-6.52	24236.800	1.5	103655.700	1.5
125.6455	28.01	-2.30	53601.190	1.5	133190.190	1.5	125.9207	20.02	-1.99	279741.800	2.0	359156.830	1.0
125.6460	28.01	-1.78	56371.410	3.5	135960.080	4.5	125.9213	30.02	-3.24	220668.300	2.0	300083.000	3.0
125.6465	25.01	-6.45	14593.820	3.0	94182.200	3.0	125.9310	24.01	-7.60	12148.000	2.5	91556.540	1.5
125.6488	14.00	.01	77.115	1.0	79664.000	1.0	125.9322	30.02	-2.29	220668.300	2.0	300076.100	2.0
125.6498	6.00	-2.96	10192.630	2.0	89778.900	3.0	125.9366	9.02	-3.21	387367.920	2.5	466771.720	3.5
125.6502	26.02	-2.33	122843.030	1.0	202429.040	1.0	125.9413	26.02	-2.95	122628.340	2.0	202030.380	3.0
125.6525	25.01	-4.82	27588.230	3.0	107172.800	3.0	125.9414	15.00	-2.18	0.000	1.5	79402.000	2.5
125.6525	25.01	-8.41	29889.310	3.0	109473.900	4.0	125.9430	25.01	-6.42	14781.190	2.0	94182.200	3.0
125.6537	13.03	-2.07	687456.800	1.0	767040.600	1.0	125.9462	28.02	-3.77	55952.000	2.0	135351.000	2.0
125.6537	13.03	-2.07	687456.800	1.0	767040.600	1.0	125.9486	24.02	-1.81	20702.000	3.0	100099.500	4.0
125.6538	25.01	-5.58	27589.030	2.0	107172.800	3.0	125.9528	16.01	.06	0.000	1.5	79394.800	2.5
125.6564	28.02	-3.24	82172.900	3.0	161755.000	3.0	125.9548	24.01	-6.77	12032.720	1.5	91426.310	2.5
125.6571	26.01	-5.26	7955.240	3.5	87536.900	3.5	125.9550	26.02	-3.92	143320.850	6.0	222714.300	6.0
125.6588	6.00	-8.64	10192.630	2.0	89773.200	3.0	125.9558	25.02	-3.01	32383.700	2.5	111776.600	1.5
125.6593	6.00	-9.39	10192.630	2.0	89772.870	2.0	125.9574	25.02	-3.19	32384.700	1.5	111776.600	1.5
125.6596	26.02	-4.81	89697.520	3.0	169277.600	4.0	125.9587	26.02	-4.20	57221.700	4.0	136612.780	4.0
125.6656	25.02	-2.57	32307.300	3.5	111883.600	2.5	125.9617	26.02	-4.24	63466.390	5.0	142855.590	4.0
125.6671	26.02	-3.42	57221.700	4.0	136797.050	3.0	125.9685	30.02	-2.96	220668.300	2.0	300053.200	2.0
125.6708	28.01	-2.27	56371.410	3.5	135944.400	3.5	125.9720	9.02	-2.50	389737.630	.5	469120.350	1.5
125.6709	26.02	-2.26	122346.610	3.0	201919.530	4.0	125.9765	13.03	-1.11	681635.500	3.0	761015.400	2.0
125.6711	25.02	-3.79	138234.790	1.5	217807.570	1.5	125.9765	13.03	-1.11	681635.500	3.0	761015.400	2.0
125.6720	11.02	-2.43	414281.000	2.5	493853.200	1.5	125.9773	26.02	-3.62	117521.910	4.0	196901.270	5.0
125.6753	24.02	-1.75	20851.300	4.0	100421.400	5.0	125.9791	26.02	-4.21	143320.850	6.0	222699.090	5.0
125.6802	16.05	-1.07	504112.000	.5	583679.000	1.5	125.9801	24.02	-1.60	16770.900	0.0	96148.500	1.0
125.6903	28.01	-2.14	55417.830	3.5	134978.470	2.5	125.9835	26.02	-2.28	121008.780	3.0	200384.280	3.0
125.6933	28.01	-2.21	56424.490	1.5	135983.220	1.5	125.9846	23.03	-.92	146429.300	2.0	225804.100	2.0
125.6943	26.02	-1.72	120826.170	2.0	200384.280	3.0	125.9855	27.01	-7.88	1597.200	2.0	80971.400	1.0
125.6992	18.02	-3.00	204563.530	1.0	284118.510	1.0	125.9881	25.02	-3.95	32404.000	.5	111776.600	1.5
125.7073	26.02	-3.20	144501.740	2.0	224051.630	3.0	125.9926	26.02	-2.73	89907.850	4.0	169277.600	4.0
125.7088	25.03	-1.65	168839.700	4.0	248388.600	3.0	125.9926	26.02	-3.10	89907.850	5.0	169277.600	4.0
125.7116	28.01	-2.45	54262.630	3.5	133809.760	3.5	125.9941	26.02	-3.49	63486.780	4.0	142855.590	4.0
125.7143	25.02	-3.41	138635.460	2.5	218180.900	1.5	125.9943	29.02	-1.17	63143.600	2.5	142512.300	1.5
125.7202	10.02	-1.16	319444.900	1.0	398986.640	2.0	125.9975	25.01	-1.50	9472.970	2.0	88839.600	1.0
125.7234	28.01	-3.44	57420.160	2.5	136959.860	2.5	125.9988	28.01	-4.54	54557.050	4.5	133922.910	4.5
125.7278	25.03	1.00	170285.800	6.0	249822.700	7.0	126.0055	26.02	-4.02	63494.000	3.0	142855.590	4.0
125.7344	18.02	-2.83	204563.530	1.0	284096.260	2.0	126.0097	28.01	-2.63	55299.650	4.5	134658.600	4.5
125.7371	26.04	-1.81	188401.000	5.0	267932.000	4.0	126.0130	27.02	-6.25	24236.800	1.5	103593.700	2.5
125.7378	28.01	-2.61	56371.410	3.5	135901.960	2.5	126.0168	9.02	-1.92	387367.920	2.5	466722.420	2.5
125.7384	26.02	-4.49	122898.840	2.0	202429.040	1.0	126.0237	27.01	-6.90	950.300	3.0	80299.200	4.0
125.7398	9.02	-1.98	387259.280	1.5	466788.600	2.5	126.0289	25.01	-.98	27546.900	6.0	106893.800	5.0
125.7422	26.02	-2.23	122628.340	2.0	202156.130	2.0	126.0298	28.01	-3.91	57420.160	2.5	136766.490	2.5
125.7485	24.01	-8.30	12032.720	1.5	91556.540	1.5	126.0346	23.03	-3.08	148369.200	4.0	227712.500	4.0
125.7491	23.02	-1.50	12187.000	4.5	91710.430	3.5	126.0354	28.01	-2.99	51557.850	3.5	130900.650	2.5
125.7498	26.04	-2.55	187725.000	4.0	267248.000	3.0	126.0360	28.01	-3.12	55299.650	4.5	134642.090	3.5
125.7524	28.01	-3.25	58493.210	2.5	138014.530	2.5	126.0368	18.01	-4.87	132327.280	3.5	211669.180	2.5
125.7590	13.03	.06	687834.700	2.0	767351.900	3.0	126.0389	26.02	-1.43	49576.900	1.0	128917.510	2.0
125.7590	13.03	.06	687834.700	2.0	767351.900	3.0	126.0393	9.02	-2.05	387367.920	2.5	466708.250	1.5
125.7593	29.02	-3.95	67016.600	3.5	146533.600	4.5	126.0408	15.00	-2.43	0.000	1.5	79339.400	1.5
125.7598	28.01	-2.64	57420.160	2.5	136936.820	3.5	126.0418	14.01	.14	0.000	.5	79338.760	1.5
125.7615	26.01	-4.78	7955.240	3.5	87470.800	4.5	126.0428	25.02	-4.35	139857.840	4.5	219195.950	4.5
125.7660	25.01	-8.42	0.000	3.0	79512.730	3.0	126.0458	18.01	-2.36	132327.280	3.5	211663.500	3.5
125.7677	29.01	-1.86	68850.060	0.0	148361.700	1.0	126.0508	11.02	-1.01	418418.100	1.5	497751.200	.5
125.7740	26.02	-4.51	122921.370	1.0	202429.040	1.0	126.0511	6.00	-4.73	10192.630	2.0	89525.540	1.0
125.7804	14.02	-4.35	175263.100	1.0	254766.750	2.0	126.0533	26.01	-1.10	0.000	4.5	79331.490	3.5
125.7897	27.02	-4.11	76791.100	1.5	156291.400	2.5	126.0561	6.00	-3.45	10192.630	2.0	89522.400	2.0
125.7863	25.02	-3.18	32383.700	2.5	111883.600	2.5	126.0562	25.01	-6.42	14901.180	1.0	94230.900	2.0
125.7879	25.02	-4.21	32384.700	1.5	111883.600	2.5	126.0613	6.00	-2.76	10192.630	2.0	89519.130	3.0
125.7956	26.02	-3.98	89783.590	4.0	169277.600	4.0	126.0671	25.01	-3.72	27570.950	5.0	106893.800	5.0
125.8049	26.02	-3.28	144570.530	3.0	224058.700	4.0	126.0735	6.00	-1.15	0.000	0.0	79318.780	1.0
125.8105	25.03	-.07	169499.200	5.0	248983.800	5.0	126.0744	6.00	-5.03	10192.630	2.0	89510.900	3.0
125.8119	9.02	-3.77	390080.300	1.5	469564.010	.5	126.0751	6.00	-2.70	10192.630	2.0	89510.430	2.0
125.8126	26.02	-4.47	63425.170	6.0	142908.480	5.0	126.0767	26.02	-1.48	121008.780	3.0	200325.560	4.0
125.8148	23.03	-.76	147135.200	2.0	226617.100	1.0	126.0797	28.01	-2.01	55299.650	4.5	134614.550	5.5
125.8158	9.02	-2.88	390080.300	1.5	469561.580	1.5	126.0826	26.02	-2.33	122843.030	1.0	202156.130	2.0
125.8161	26.02	-4.82	144570.530	3.0	224051.630	3.0	126.0834	28.01	-3.90	57420.160	2.5	136732.740	1.5
125.8183	25.02	-3.46	138635.460	2.5	218115.150	3.5	126.0867	25.01	-5.18	27583.300	4.0	106893.800	5.0
125.8191	28.01	-4.26	57420.160	2.5	136899.330	1.5	126.0898	28.01	-4.30	58705.950	1.5	138014.530	2.5
125.8218	28.01	-3.46	56424.490	1.5	135901.960	2.5	126.0911	28.01	-3.15	55299.650	4.5	134607.370	4.5
125.8254	28.01	-4.42	57420.160	2.5	136899.360	3.5	126.0912	25.02	-.68	68899.200	4.5	148206.900	5.5
125.8271	28.01	-3.36	51557.850	3.5	131032.010	2.5	126.0927	6.00	-1.15	16.400	1.0	79323.160	0.0
125.8320	20.02	-3.13	281882.240	2.0	361353.310	1.0	126.0948	26.02	-3.95	87901.870	3.0	167207.300	4.0
125.8348	18.02	-3.41	204649.240	2.0	284118.510	1.0	126.0996	6.00	-1.28	16.400	1.0	79318.780	1.0
125.8385	25.02	-3.40	138340.620	2.5	217807.570	1.5	126.1052	18.02	-3.36	204797.370	3.0	284096.260	2.0
125.8387	28.01	-3.42	25036.380	2.5	104503.220	2.5	126.1062	9.02	-1.30	387523.470	3.5	466821.720	3.5
125.8401	28.03	-2.62	112144.090	1.5	191610.010	1.5	126.1069	28.01	-3.35	55299.650	4.5	134597.430	5.5
125.8438	25.02	-2.17	68892.000	3.5	148355.600	3.							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
126.1858	9.02	-1.19	387523.470	3.5	466771.720	3.5	126.5205	13.03	.24	688313.300	2.0	767351.900	3.0
126.1933	28.01	-2.41	51557.850	3.5	130801.330	4.5	126.5205	13.03	.24	688313.300	2.0	767351.900	3.0
126.1977	28.01	-1.74	55417.830	3.5	134658.600	4.5	126.5206	18.01	-1.60	132630.650	1.5	211669.180	2.5
126.2007	6.00	-2.80	10192.630	2.0	89431.480	2.0	126.5214	25.04	-2.93	183528.000	2.5	262566.000	3.5
126.2072	26.02	-2.98	122921.370	1.0	202156.130	2.0	126.5235	24.02	-2.79	18581.600	4.0	97618.300	5.0
126.2116	24.02	-3.47	18451.000	2.0	97683.000	3.0	126.5248	9.02	-1.84	387259.280	1.5	466295.150	1.5
126.2187	28.01	-3.95	55299.650	4.5	134527.240	3.5	126.5291	9.02	-4.10	390210.430	3.5	469243.660	4.5
126.2198	24.02	-2.60	17850.000	2.0	97076.900	1.0	126.5341	30.02	-7.70	140654.800	3.0	219684.900	3.0
126.2240	28.01	-1.79	55417.830	3.5	134642.900	3.5	126.5360	30.02	-5.53	137866.400	2.0	216895.300	1.0
126.2248	13.02	-2.37	126164.050	.5	205387.770	1.5	126.5362	26.02	-1.96	49576.900	1.0	128605.650	1.0
126.2261	13.03	-5.52	688313.300	2.0	767536.200	2.0	126.5419	28.01	-3.31	56075.260	2.5	135100.450	3.5
126.2261	13.03	-5.52	688313.300	2.0	767536.200	2.0	126.5457	26.02	-5.61	42896.900	3.0	121919.740	3.0
126.2265	20.02	-2.32	282571.430	1.0	361794.080	1.0	126.5464	26.01	-1.91	13673.210	1.5	92695.620	2.5
126.2289	26.01	-2.44	13474.430	2.5	92695.620	2.5	126.5501	29.01	-2.15	67916.390	1.0	146936.480	2.0
126.2314	15.00	-2.31	0.000	1.5	79219.600	.5	126.5501	26.02	-3.21	145038.610	3.0	224058.700	4.0
126.2331	24.02	-1.45	17167.400	1.0	96385.900	2.0	126.5614	26.02	-4.09	145038.610	3.0	224051.630	3.0
126.2402	28.01	-4.37	58493.210	2.5	137707.260	3.5	126.5626	28.01	-2.43	52738.450	2.5	131750.730	3.5
126.2440	13.02	-2.67	126164.050	.5	205375.740	.5	126.5665	9.01	-3.09	207699.070	1.0	286708.930	0.0
126.2467	26.01	-6.12	8391.920	2.5	87601.900	1.5	126.5690	11.02	-2.34	414281.000	2.5	493289.300	1.5
126.2498	28.01	-4.72	57080.550	3.5	136288.600	2.5	126.5757	9.01	-3.30	207702.040	0.0	286706.140	1.0
126.2508	30.02	.32	137866.400	2.0	217073.800	2.0	126.5762	8.02	-1.07	300228.210	0.0	379232.000	1.0
126.2508	28.01	-2.85	51557.850	3.5	130765.250	3.5	126.5785	9.01	-2.53	207703.790	2.0	286706.140	1.0
126.2532	28.02	-2.62	76237.800	3.0	155443.700	2.0	126.5787	9.01	-2.75	207699.070	1.0	286701.280	2.0
126.2539	28.02	-4.26	61339.200	4.0	140544.700	3.0	126.5830	9.02	-2.49	390120.770	.5	469120.350	1.5
126.2613	26.02	-3.13	122829.550	3.0	202030.380	3.0	126.5863	9.01	-2.62	207703.790	2.0	286701.280	2.0
126.2632	28.01	-4.07	51557.850	3.5	130757.510	4.5	126.5879	26.02	-3.58	89783.590	4.0	168780.100	5.0
126.2643	9.02	-2.13	387523.470	3.5	466772.240	2.5	126.5929	27.01	-1.35	3350.500	5.0	82343.900	4.0
126.2655	20.02	-1.92	203373.220	0.0	282571.430	1.0	126.5989	27.02	-4.92	47003.100	3.5	125992.700	2.5
126.2717	11.02	-1.73	418556.900	.5	497751.200	.5	126.5993	24.02	-1.98	20851.300	4.0	99840.700	3.0
126.2762	27.01	-7.51	1597.200	2.0	80788.700	2.0	126.6026	27.02	-5.88	20194.900	1.5	99182.200	.5
126.2767	24.02	-4.62	94374.700	4.0	173565.900	5.0	126.6047	26.04	-4.54	195942.000	3.0	274928.000	3.0
126.2793	28.01	-2.88	55417.830	3.5	134607.370	4.5	126.6066	28.01	-4.66	10115.660	2.5	89100.490	3.5
126.2817	18.01	-2.69	132481.140	2.5	211669.180	2.5	126.6100	8.02	-4.80	300310.310	1.0	379293.000	2.0
126.2830	28.01	-3.40	53037.930	2.5	132225.150	1.5	126.6105	26.02	-3.03	40999.870	2.0	119982.260	1.0
126.2830	26.02	-1.07	121468.820	5.0	200656.020	6.0	126.6106	30.02	-3.38	221143.700	3.0	300126.000	4.0
126.2893	26.02	-3.48	87901.870	3.0	167085.120	3.0	126.6126	24.02	-1.74	17167.400	1.0	96148.500	1.0
126.2908	18.01	-1.81	132481.140	2.5	211663.500	3.5	126.6168	26.02	-4.13	57221.700	4.0	136200.130	3.0
126.2918	29.01	-1.84	67916.390	1.0	147098.100	0.0	126.6185	6.00	-4.88	10192.630	2.0	89170.000	1.0
126.2925	28.01	-6.33	54262.630	3.5	133443.890	2.5	126.6193	8.02	-1.63	313801.070	0.0	392778.000	1.0
126.2967	26.01	-5.36	8391.920	2.5	87571.900	2.5	126.6229	26.01	-4.65	7955.240	3.5	86929.920	3.5
126.2978	28.01	-4.88	54557.050	4.5	133734.980	3.5	126.6254	26.02	-2.44	123455.920	0.0	202429.040	1.0
126.2997	9.02	-3.24	387367.920	2.5	466544.700	1.5	126.6268	25.01	-4.98	31022.050	0.0	109994.300	1.0
126.3057	24.02	-2.00	18510.000	3.0	97683.000	3.0	126.6270	6.00	-4.42	10192.630	2.0	89164.740	1.0
126.3062	28.01	-3.23	51557.850	3.5	130730.530	2.5	126.6304	28.01	-2.36	57080.550	3.5	136050.530	2.5
126.3071	25.02	-3.72	138635.460	2.5	217807.570	1.5	126.6305	29.01	-2.53	67916.390	1.0	146886.310	1.0
126.3138	26.02	-4.50	69747.400	0.0	148915.300	1.0	126.6311	6.00	-3.69	10192.630	2.0	89162.200	2.0
126.3172	25.03	-1.58	169499.200	5.0	248665.000	4.0	126.6347	25.01	-6.33	14901.180	1.0	93868.500	1.0
126.3201	23.02	-1.16	15550.300	.5	94714.250	.5	126.6361	27.02	-4.68	47415.400	2.5	126381.800	1.5
126.3236	25.01	-5.50	27588.230	3.0	106750.000	2.0	126.6393	30.02	-3.45	221143.700	3.0	300108.100	3.0
126.3249	25.01	-6.46	27589.030	2.0	106750.000	2.0	126.6415	6.00	-2.25	10192.630	2.0	89155.700	3.0
126.3295	28.01	-1.93	54557.050	4.5	133715.130	4.5	126.6517	6.00	-2.93	10192.630	2.0	89149.350	1.0
126.3298	9.02	-4.10	389525.550	1.5	468682.430	2.5	126.6537	18.01	-1.35	132630.650	1.5	211586.110	2.5
126.3365	26.02	-1.21	121241.670	4.0	200395.330	5.0	126.6549	26.01	-6.44	8680.470	1.5	87635.200	.5
126.3374	12.02	-1.01	467378.500	1.0	546531.600	1.0	126.6554	30.02	-2.65	221143.700	3.0	300098.100	4.0
126.3504	26.01	-5.09	8391.920	2.5	87536.900	3.5	126.6604	6.00	-4.18	10192.630	2.0	89143.900	3.0
126.3506	26.02	-6.53	35803.700	2.0	114948.550	3.0	126.6610	28.01	-2.16	57080.550	3.5	136031.430	2.5
126.3517	28.01	-4.21	8393.900	4.5	87538.090	3.5	126.6624	6.00	-2.55	10192.630	2.0	89142.660	2.0
126.3542	26.02	-3.34	121241.670	4.0	200384.230	3.0	126.6631	13.01	-2.10	39849.700	1.0	138799.300	0.0
126.3587	23.03	-5.35	147656.500	3.0	226796.300	2.0	126.6640	23.03	-1.31	146855.100	3.0	225804.100	2.0
126.3604	24.02	-8.84	20702.000	3.0	99840.700	3.0	126.6652	26.02	-1.35	122944.150	4.0	201892.440	5.0
126.3642	25.01	-1.31	27570.950	5.0	106707.300	4.0	126.6677	26.01	-1.62	384.770	3.5	79331.490	3.5
126.3672	23.02	-9.98	15579.800	1.5	94714.250	.5	126.6680	28.01	-3.45	23796.180	1.5	102742.740	1.5
126.3719	26.02	-2.11	122898.840	2.0	202030.380	3.0	126.6695	27.01	-7.46	1597.200	2.0	80542.800	3.0
126.3767	26.01	-4.10	13474.430	2.5	92602.940	3.5	126.6745	25.01	-1.67	27583.300	4.0	106525.800	2.0
126.3789	26.02	-4.94	69788.190	1.0	148915.300	1.0	126.6759	18.01	-1.87	132630.650	1.5	211572.270	1.5
126.3791	24.02	-4.47	94799.600	5.0	173926.600	6.0	126.6796	30.02	-2.88	221143.700	3.0	300083.000	3.0
126.3818	18.01	-1.64	132481.140	2.5	211606.470	3.5	126.6824	25.01	-4.08	27588.230	3.0	106525.800	3.0
126.3839	25.01	-6.49	27583.300	4.0	106707.300	4.0	126.6837	25.01	-5.82	27589.030	2.0	106525.800	3.0
126.3864	18.02	-2.37	204797.370	3.0	283919.780	3.0	126.6867	9.02	-7.35	387367.920	2.5	466302.800	3.5
126.3866	24.01	-6.82	12303.980	3.5	91426.310	2.5	126.6881	9.02	-1.95	387367.920	2.5	466301.960	2.5
126.3869	15.00	-3.46	0.000	1.5	79122.100	1.5	126.6885	23.03	-7.07	106.630	2.0	79040.400	3.0
126.3878	28.01	-2.96	55417.830	3.5	134539.370	2.5	126.6907	30.02	-4.45	221143.700	3.0	300076.100	2.0
126.3911	25.02	-3.34	139857.840	4.5	218977.340	3.5	126.6917	9.02	-4.49	387259.280	1.5	466191.030	2.5
126.3918	25.01	-5.06	27588.230	3.0	106707.300	4.0	126.6918	28.02	-3.70	78303.100	2.0	157234.800	1.0
126.3990	9.02	-5.57	387523.470	3.5	466637.990	4.5	126.6965	28.02	-4.31	55406.100	3.0	134334.900	3.0
126.4072	28.01	-4.76	55417.830	3.5	134527.240	3.5	126.6976	28.02	-2.44	82826.900	4.0	161755.000	3.0
126.4143	18.01	-3.56	132481.140	2.5	211586.110	2.5	126.6990	9.02	-2.94	387367.920	2.5	466295.150	1.5
126.4144	24.02	-1.97	20994.600	5.0	100099.500								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
126.7827	23.02	-3.83	85524.000	2.5	164399.100	3.5	127.0779	16.00	-2.48	0.000	2.0	78691.890	1.0
126.7868	25.02	-4.36	139944.400	3.5	218816.970	2.5	127.0785	29.01	-2.68	69867.810	2.0	148559.300	2.0
126.7872	12.02	-1.73	530178.200	2.0	609090.500	2.0	127.0791	16.00	-0.56	0.000	2.0	78691.140	3.0
126.7873	26.02	-3.17	89907.850	4.0	168780.100	5.0	127.0799	16.00	-1.30	0.000	2.0	78690.680	2.0
126.7873	26.02	-2.50	89907.850	5.0	168780.100	5.0	127.0829	38.01	-6.28	0.000	0.0	78688.793	0.0
126.7934	28.01	-2.92	57420.160	2.5	136288.600	2.5	127.0844	6.00	-4.28	43.400	2.0	78731.270	1.0
126.7954	12.02	-1.58	530178.200	2.0	609045.400	3.0	127.0881	26.01	-6.63	13673.210	1.5	92358.800	1.5
126.7957	12.02	-4.81	530178.200	2.0	609045.200	3.0	127.0919	27.02	-4.04	47698.600	1.5	126381.800	1.5
126.7961	26.02	-4.54	69788.190	1.0	148655.000	0.0	127.0924	25.02	-3.72	140294.440	3.5	218977.340	3.5
126.8008	28.01	-1.78	57080.550	3.5	135944.400	3.5	127.0933	24.01	-8.06	12303.980	3.5	90986.310	3.5
126.8019	24.02	-4.85	94799.600	5.0	173662.800	6.0	127.0971	11.02	-1.68	415173.200	1.5	493853.200	1.5
126.8020	24.02	-1.55	17850.000	2.0	96713.100	3.0	127.0997	28.01	-4.79	51557.850	3.5	130236.260	2.5
126.8027	29.01	-3.34	71919.930	3.0	150782.600	2.0	127.1001	25.01	-3.41	30795.750	4.0	109473.900	4.0
126.8045	6.00	-2.80	10192.630	2.0	89054.160	2.0	127.1031	25.01	-2.50	27589.030	2.0	106265.300	1.0
126.8065	30.02	-3.93	142483.300	2.0	221343.600	2.0	127.1079	9.02	-0.66	387367.920	2.5	466041.220	3.5
126.8122	26.02	-3.93	121468.820	5.0	200325.560	4.0	127.1080	9.02	-1.30	387523.470	3.5	466196.700	3.5
126.8140	26.01	-5.32	13474.430	2.5	92330.100	2.5	127.1100	28.02	-1.81	78482.900	1.0	157154.900	2.0
126.8149	24.02	-2.03	18451.000	2.0	97306.100	2.0	127.1113	14.02	-2.47	175336.260	2.0	254007.480	3.0
126.8186	29.02	-4.85	68963.600	2.5	147816.400	1.5	127.1129	9.02	-1.82	387367.920	2.5	466038.170	2.5
126.8196	8.02	-1.71	300440.850	2.0	379293.000	2.0	127.1144	24.02	-4.56	18451.000	2.0	97120.300	3.0
126.8202	28.02	-3.05	78303.100	2.0	157154.900	2.0	127.1147	28.02	-4.46	78303.100	2.0	156972.200	3.0
126.8252	24.02	-3.52	18510.000	3.0	97358.700	4.0	127.1150	23.03	-0.98	147135.200	2.0	225804.100	2.0
126.8253	27.02	-5.81	20194.900	1.5	99043.500	1.5	127.1169	14.02	-3.22	175336.260	2.0	254004.000	2.0
126.8318	28.02	-2.45	61339.200	4.0	140183.800	4.0	127.1172	9.02	-2.83	387523.470	3.5	466191.030	2.5
126.8355	29.02	-3.48	68963.600	2.5	147805.900	3.5	127.1176	28.02	-4.12	54657.900	4.0	133325.200	4.0
126.8362	28.01	-4.60	9330.040	3.5	88171.880	4.5	127.1183	28.01	-4.59	29070.930	1.5	107737.810	1.5
126.8417	30.02	-4.45	140071.000	1.0	218909.400	1.0	127.1201	14.02	-4.39	175336.260	2.0	254002.000	1.0
126.8419	24.01	-8.08	12148.000	2.5	90986.310	3.5	127.1212	30.02	-4.17	221343.600	2.0	300008.700	1.0
126.8478	18.01	-1.12	132737.610	5.0	211572.270	1.5	127.1213	25.01	-4.23	38366.070	2.0	117031.100	3.0
126.8528	23.01	-7.90	208.890	3.0	79040.400	3.0	127.1232	26.01	-2.38	667.640	2.5	79331.490	3.5
126.8544	26.02	-4.71	143883.740	5.0	222714.300	6.0	127.1233	29.02	-1.31	63886.300	1.5	142550.100	1.5
126.8572	9.02	-1.73	387367.920	2.5	466196.700	3.5	127.1239	12.01	-2.97	35669.310	5.0	114332.740	1.5
126.8615	26.02	-4.33	63486.780	4.0	142312.900	3.0	127.1288	30.02	-2.55	142483.300	2.0	221143.700	3.0
126.8663	9.02	-1.17	387367.920	2.5	466191.030	2.5	127.1299	11.02	-3.88	366165.300	2.5	444825.000	2.5
126.8666	29.01	-2.01	71919.930	3.0	150742.900	3.0	127.1312	29.01	-1.75	67916.390	1.0	146575.300	2.0
126.8691	28.01	-2.87	57080.550	3.5	135901.960	2.5	127.1344	26.01	-5.48	13673.210	1.5	92330.100	2.5
126.8728	27.02	-3.14	77472.300	2.5	156291.400	2.5	127.1391	29.01	-2.53	69867.810	2.0	148521.800	1.0
126.8731	26.02	-4.00	63494.000	3.0	142312.900	3.0	127.1479	25.02	-4.64	139857.840	4.5	218506.390	3.5
126.8739	25.01	-6.97	14901.180	1.0	93719.600	1.0	127.1512	28.01	-4.13	23108.280	2.5	101754.800	2.5
126.8788	26.02	-4.49	143883.740	5.0	222699.090	5.0	127.1574	26.02	-2.99	121241.670	4.0	199884.390	5.0
126.8832	26.01	-5.00	7955.240	3.5	86767.870	2.5	127.1642	25.02	-4.05	140557.460	4.5	219195.950	4.5
126.8901	26.01	-6.42	13474.430	2.5	92282.760	3.5	127.1687	26.02	-4.81	88663.870	4.0	167299.600	5.0
126.8970	25.02	-3.97	32307.300	3.5	111111.390	4.5	127.1695	28.01	-4.55	55471.830	3.5	134053.050	2.5
126.9046	24.01	-8.08	12303.980	3.5	91103.360	4.5	127.1709	28.01	-2.01	57420.160	2.5	136054.500	1.5
126.9059	28.01	-4.08	9330.040	3.5	88128.560	2.5	127.1773	28.01	-3.31	57420.160	2.5	136050.530	2.5
126.9098	24.02	-1.01	18510.000	3.0	97306.100	2.0	127.1781	12.02	-1.29	530420.600	1.0	609050.500	2.0
126.9099	26.02	-2.82	121008.780	3.0	199804.810	4.0	127.1807	27.02	-6.19	20194.900	1.5	98823.200	2.5
126.9122	26.02	-1.39	49576.900	1.0	128371.530	0.0	127.1844	29.02	-1.71	63886.300	1.5	142512.300	1.5
126.9132	26.02	-3.86	90483.590	3.0	169277.600	4.0	127.1846	24.02	-1.27	18451.000	2.0	97076.900	1.0
126.9173	10.02	-3.92	356776.520	2.0	435568.000	3.0	127.1877	28.01	-3.26	53601.190	1.5	132225.150	1.5
126.9178	8.02	-3.34	300440.850	2.0	379232.000	1.0	127.1901	24.02	-4.37	95304.100	6.0	173926.600	6.0
126.9180	28.01	-4.54	55018.710	2.5	133809.760	3.5	127.1904	26.02	-4.16	50295.200	3.0	128917.510	2.0
126.9222	26.01	-6.48	8846.760	5.0	87635.200	5.0	127.1935	27.01	-4.40	3350.500	5.0	81970.900	5.0
126.9244	26.02	-3.00	57221.700	4.0	136008.740	3.0	127.1940	14.01	-4.68	42824.350	5.0	121444.380	5.0
126.9270	25.01	-2.06	27588.230	3.0	106373.700	2.0	127.1940	12.01	-2.69	35669.310	5.0	114289.360	5.0
126.9282	25.01	-3.95	27589.030	2.0	106373.700	2.0	127.1943	26.02	-4.81	51637.300	1.0	230257.150	2.0
126.9327	20.02	-2.73	282571.430	1.0	361353.310	1.0	127.1961	25.02	-1.08	117063.740	4.5	195682.500	5.0
126.9337	28.01	-2.77	57420.160	2.5	136201.460	3.5	127.1982	26.01	-1.49	667.640	2.5	79285.100	2.5
126.9369	9.02	-1.39	387323.470	3.5	466302.800	3.5	127.1995	28.01	-2.59	25036.380	2.5	103653.030	3.5
126.9376	9.02	-0.50	387259.280	1.5	466038.170	2.5	127.2022	26.01	-0.36	13474.430	2.5	92089.410	3.5
126.9382	9.02	-4.04	387323.470	3.5	466301.960	2.5	127.2035	29.01	-0.99	69867.810	2.0	148482.000	3.0
126.9404	24.02	-3.33	18581.600	4.0	97358.700	4.0	127.2036	30.02	-0.27	141392.500	0.0	220006.600	1.0
126.9442	29.01	-1.65	69867.810	2.0	148642.600	2.0	127.2082	28.01	-2.01	57420.160	2.5	136031.430	2.5
126.9487	14.02	-3.07	175230.010	0.0	234002.000	1.0	127.2083	24.02	-0.37	17167.400	1.0	95778.600	0.0
126.9560	9.02	-0.07	387323.470	3.5	466290.900	4.5	127.2098	24.02	-3.66	18510.000	3.0	97120.300	3.0
126.9568	25.01	-4.84	31661.720	3.0	110428.700	4.0	127.2105	25.02	-4.05	140207.090	2.5	218816.970	2.5
126.9578	24.02	-4.70	94799.600	5.0	173565.900	5.0	127.2150	28.01	-2.75	56371.410	3.5	134978.470	2.5
126.9582	14.01	-4.57	42824.350	5.0	121590.450	1.5	127.2158	24.01	-7.12	12496.790	4.5	91103.360	4.5
126.9608	30.02	-2.33	221343.600	2.0	300108.100	3.0	127.2174	9.02	-2.71	390077.800	2.5	468683.430	2.5
126.9625	29.01	-3.10	69867.810	2.0	148631.200	3.0	127.2185	26.02	-2.03	85694.670	5.0	167299.600	5.0
126.9653	10.02	-3.68	356776.520	1.0	435527.900	2.0	127.2213	26.02	-2.69	123552.950	1.0	202156.130	2.0
126.9682	23.03	-2.35	144273.100	2.0	223033.000	3.0	127.2214	9.02	-3.74	390080.300	1.5	468683.430	2.5
126.9758	26.01	-6.57	8846.760	5.0	87601.900	1.5	127.2276	27.01	-1.20	4028.900	4.0	82628.200	3.0
126.9811	28.02	-1.98	78482.900	1.0	157234.800	1.0	127.2327	26.02	-3.20	87901.870	3.0	166496.000	3.0
126.9819	10.02	-4.19	356776.520	2.0	435527.900	2.0	127.2341	28.01	-4.76	55018.710	2.5	133613.990	1.5
126.9917	28.01	-2.88	56371.410	3.5	135116.720	2.5	127.2349	28.01	-3.49	56075.260	2.5	134670.070	1.5
126.9953	28.01	-4.00	58493.210	2.5	137236.280	3.5	127.2389	26.01	-6.85	7955.240	3.5	86547.550	2.5
126.9970	26.01	-3.33	13474.430	2.5</									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
127.3058	26.02	-1.79	118350.240	4.0	196901.270	5.0	127.5583	9.02	-1.79	390210.430	3.5	468605.940	4.5
127.3070	28.02	-2.89	78303.100	2.0	156853.400	3.0	127.5642	28.01	-2.31	55417.830	3.5	133809.760	3.5
127.3079	25.01	-5.47	29889.310	3.0	108439.000	3.0	127.5646	6.00	-8.04	10192.630	2.0	88584.260	2.0
127.3109	25.01	-6.49	29889.310	3.0	108437.200	2.0	127.5712	13.03	-1.09	688653.000	1.0	767040.600	1.0
127.3181	26.02	-2.31	88663.870	4.0	167207.300	4.0	127.5712	13.03	-1.09	688653.000	1.0	767040.600	1.0
127.3185	26.01	-4.74	13673.210	1.5	92216.420	1.5	127.5746	25.01	-9.51	9472.970	2.0	87858.510	2.0
127.3237	29.02	-2.85	63886.300	1.5	142426.300	2.5	127.5766	26.02	-2.63	121941.290	4.0	200325.560	4.0
127.3258	24.02	-4.89	18581.600	4.0	97120.300	3.0	127.5775	23.02	-2.85	16330.500	1.5	94714.250	1.5
127.3269	26.01	-4.96	8391.920	2.5	86929.920	3.5	127.5779	26.01	-1.59	862.630	1.5	79246.130	1.5
127.3303	24.02	-1.95	17850.000	2.0	96385.900	2.0	127.5818	26.01	-8.81	862.630	1.5	79243.730	1.5
127.3332	29.02	-4.13	118864.300	3.5	197398.400	2.5	127.5819	20.02	-2.35	281139.550	1.0	359520.600	2.0
127.3382	26.02	-2.87	118355.010	6.0	196886.010	6.0	127.5850	25.02	-4.90	138312.700	4.5	216691.830	5.5
127.3423	12.01	-2.39	35760.880	1.5	114289.360	1.5	127.5892	26.02	-2.41	88923.070	6.0	167299.600	5.0
127.3427	9.02	-2.24	390077.800	2.5	468606.050	3.5	127.5902	26.02	-3.53	121949.620	5.0	200325.560	4.0
127.3439	26.01	-5.60	7955.240	3.5	86482.750	3.5	127.5902	26.01	-5.34	8391.920	2.5	86767.870	2.5
127.3456	26.02	-1.48	118355.010	6.0	196881.470	7.0	127.6064	27.02	-4.97	47003.100	3.5	125369.100	2.5
127.3492	28.01	-2.42	57420.160	2.5	135944.400	3.5	127.6064	6.00	-4.53	10192.630	2.0	88558.600	1.0
127.3520	25.02	-3.12	140294.440	3.5	218816.970	2.5	127.6103	25.02	-4.83	139944.400	3.5	218307.980	2.5
127.3521	23.02	-4.07	85875.740	3.5	164398.200	4.5	127.6174	28.01	-4.55	58493.210	2.5	136852.440	1.5
127.3537	23.03	-7.76	144273.100	2.0	222794.600	2.0	127.6196	30.02	-1.98	141327.000	4.0	219684.900	3.0
127.3564	25.01	-5.15	29919.220	2.0	108439.000	3.0	127.6210	30.02	-4.27	140071.000	1.0	218428.000	0.0
127.3569	28.01	-3.48	53601.190	1.5	132120.700	1.5	127.6219	6.00	-3.46	10192.630	2.0	88549.060	1.0
127.3590	26.02	-3.80	121919.740	3.0	200437.940	2.0	127.6287	6.00	-2.73	10192.630	2.0	88544.900	3.0
127.3594	25.01	-5.53	29919.220	2.0	108437.200	2.0	127.6300	25.02	-3.61	117063.740	4.5	195415.200	4.5
127.3597	9.02	-3.37	387523.470	3.5	466041.220	3.5	127.6344	6.00	-2.61	10192.630	2.0	88541.400	2.0
127.3610	27.02	-4.40	47864.800	1.5	126381.800	1.5	127.6389	25.03	-2.14	130969.500	3.0	209315.500	3.0
127.3618	9.02	-3.81	391047.540	1.5	469564.010	1.5	127.6401	26.01	-6.04	15844.710	4.5	94190.020	5.5
127.3620	25.01	-6.53	29919.220	2.0	108435.600	1.0	127.6409	26.02	-4.97	42896.900	3.0	121241.670	4.0
127.3634	24.02	-3.33	18581.600	4.0	97097.100	4.0	127.6422	26.02	-2.91	118557.250	5.0	196901.270	5.0
127.3647	9.02	-3.72	387523.470	3.5	466038.170	2.5	127.6479	15.00	-5.87	0.000	1.5	78340.500	2.5
127.3658	9.02	-4.62	391047.540	1.5	469561.580	1.5	127.6483	6.00	-3.96	0.000	0.0	78340.280	1.0
127.3665	26.02	-3.38	57221.700	4.0	135735.310	5.0	127.6487	24.03	-4.89	105113.000	4.5	183453.000	5.5
127.3680	26.02	-2.13	88694.670	5.0	167207.300	4.0	127.6552	26.02	-4.13	121468.820	5.0	199804.810	4.0
127.3690	28.01	-4.97	55417.830	3.5	133929.880	3.5	127.6577	13.03	-4.50	680862.900	1.0	759197.400	0.0
127.3703	29.01	-1.75	67916.390	1.0	146427.600	1.0	127.6577	13.03	-4.50	680862.900	1.0	759197.400	0.0
127.3721	28.01	-2.90	55299.650	4.5	133809.760	3.5	127.6598	26.02	-2.31	123697.180	2.0	202030.380	3.0
127.3730	29.02	-1.97	118864.300	3.5	197373.900	3.5	127.6606	26.02	-4.53	57221.700	4.0	135554.410	4.0
127.3781	20.02	-1.87	281882.240	2.0	360388.680	3.0	127.6670	26.02	-1.57	118557.250	5.0	196886.010	6.0
127.3788	28.01	-3.86	58705.950	1.5	137211.930	1.5	127.6684	25.02	-4.52	32383.700	2.5	110711.620	3.5
127.3801	26.02	-1.06	50412.300	2.0	128917.510	2.0	127.6689	27.02	-3.63	46438.300	4.5	124765.900	5.5
127.3803	28.01	-4.67	55417.830	3.5	133922.910	4.5	127.6733	20.02	-2.52	281882.240	2.0	360207.160	2.0
127.3879	28.02	-3.79	54657.900	4.0	133158.300	3.0	127.6750	6.00	-4.06	16.400	1.0	78340.280	1.0
127.3915	25.02	-4.24	140207.090	2.5	218705.250	2.5	127.6772	24.02	-3.40	18451.000	2.0	96773.500	1.0
127.3985	29.01	-3.76	69867.810	2.0	148361.700	1.0	127.6808	26.02	-3.15	87901.870	3.0	166222.200	4.0
127.4025	28.02	-3.83	97996.300	3.0	176487.700	2.0	127.6824	26.02	-4.42	70694.030	5.0	149013.360	4.0
127.4055	25.02	-4.47	140179.740	2.5	218669.260	1.5	127.6849	9.02	-2.26	413143.860	3.5	491461.650	4.5
127.4055	24.01	-9.72	12496.790	4.5	90986.310	3.5	127.6855	28.01	-4.73	55417.830	3.5	133735.260	2.5
127.4065	29.01	-2.72	68447.570	3.0	146936.480	2.0	127.6860	28.01	-4.58	55417.830	3.5	133734.980	3.5
127.4078	25.01	-4.09	38542.960	3.0	117031.100	3.0	127.6880	25.02	-4.46	140280.800	4.5	218596.690	5.5
127.4109	6.00	-3.25	43.400	2.0	78529.620	3.0	127.6895	27.01	-1.59	4028.900	4.0	82343.900	4.0
127.4111	25.01	-5.72	29951.120	1.0	108437.200	2.0	127.6905	9.02	-3.28	387726.840	4.5	466041.220	3.5
127.4137	25.01	-6.03	29951.120	1.0	108435.600	1.0	127.6951	26.01	-2.51	13904.870	1.5	92216.420	1.5
127.4170	14.01	-4.37	43107.970	2.5	121590.450	1.5	127.6978	28.02	-3.27	62606.300	3.0	140916.200	2.0
127.4181	28.01	-2.15	57420.160	2.5	135901.960	2.5	127.7038	26.01	-8.75	384.770	3.5	78690.980	2.5
127.4242	25.03	-3.63	130969.500	3.0	209447.500	4.0	127.7042	6.00	-2.58	10192.630	2.0	88498.620	2.0
127.4273	28.01	-3.14	8393.900	4.5	86870.030	4.5	127.7074	26.01	-6.47	15844.710	4.5	94148.710	4.5
127.4315	25.02	-4.27	139902.060	5.5	218375.610	4.5	127.7150	29.01	-2.29	67916.390	1.0	146215.700	1.0
127.4324	9.02	-3.66	390210.430	3.5	468683.430	2.5	127.7164	24.02	-2.94	17850.000	2.0	96148.500	1.0
127.4332	9.02	-2.28	390210.430	3.5	468682.910	3.5	127.7183	28.01	-3.69	55417.830	3.5	133715.130	4.5
127.4366	24.02	-3.91	18451.000	2.0	96921.400	2.0	127.7190	6.00	-3.88	43.400	2.0	78340.280	1.0
127.4375	9.02	-3.90	387726.840	4.5	466196.700	3.5	127.7199	16.00	-1.30	395.560	1.0	78691.890	1.0
127.4384	30.02	-4.02	140071.000	1.0	218540.300	2.0	127.7219	16.00	-0.83	395.560	1.0	78690.680	2.0
127.4412	28.01	-4.33	58493.210	2.5	136960.750	2.5	127.7244	28.01	-1.92	52738.450	2.5	131032.010	2.5
127.4427	28.01	-4.59	58493.210	2.5	136959.860	2.5	127.7245	6.00	-2.08	0.000	0.0	78293.490	1.0
127.4432	28.01	-4.32	10115.660	2.5	88582.010	1.5	127.7282	6.00	-1.81	16.400	1.0	78307.630	2.0
127.4450	28.02	-4.94	53703.700	5.0	132168.900	6.0	127.7291	25.03	-1.39	130969.500	3.0	209260.200	2.0
127.4461	29.01	-2.99	66418.520	2.0	144883.090	2.0	127.7348	28.01	-2.20	56371.410	3.5	134658.600	4.5
127.4461	26.02	-3.27	121919.740	3.0	200384.280	3.0	127.7372	9.02	-4.93	390834.600	2.5	469120.350	1.5
127.4476	12.03	-4.31	604007.400	2.5	682471.000	1.5	127.7385	9.02	-3.62	390834.600	2.5	469119.520	2.5
127.4500	25.02	-3.12	140207.090	2.5	218669.260	1.5	127.7390	26.02	-4.32	70728.750	4.0	149013.360	4.0
127.4532	26.02	-3.72	121241.670	4.0	199701.820	3.0	127.7392	28.01	-2.98	51557.850	3.5	129842.330	2.5
127.4552	26.02	-3.17	123697.180	2.0	202156.130	2.0	127.7448	28.02	-4.00	55952.000	2.0	134233.100	2.0
127.4632	26.02	-3.58	121941.290	4.0	200395.330	5.0	127.7466	26.02	-2.75	123750.390	3.0	202030.380	3.0
127.4633	26.01	-6.14	13904.870	1.5	92358.800	1.5	127.7473	14.02	-1.56	176487.190	1.0	254766.750	2.0
127.4633	6.00	-4.03	10192.630	2.0	88646.600	1.0	127.7508	25.03	-2.08	131170.100	4.0	209447.500	4.0
127.4650	28.02	-3.76	53703.700	5.0	132156.600	4.0	127.7513	6.00	-2.12	16.400	1.0	78293.490	1.0
127.4756	6.00	-4.61	10192.630	2.0	88639.020	1.0	127.7550	6.00	-1.58	43.400	2.0	78318.250	3.0
127.4767	26.02	-3.18	121949.620	5.0	200395.330	5.0							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
127.8880	28.01	-3.28	58705.950	1.5	136899.340	2.5	128.2284	28.01	-2.64	53634.620	1.5	131620.450	1.5
127.8881	26.02	-1.39	50412.300	2.0	128605.650	1.0	128.2298	25.03	-1.18	131462.500	5.0	209447.500	4.0
127.8903	14.03	-1.68	250008.020	2.5	328200.040	2.5	128.2303	28.02	-3.42	55406.100	3.0	133390.800	3.0
127.8903	14.03	-1.38	250008.020	2.5	328200.040	2.5	128.2321	18.01	-1.20	132481.140	2.5	210464.710	2.5
127.8905	14.03	-1.53	250008.140	1.5	328200.040	2.5	128.2344	27.02	-4.85	55729.200	3.5	133711.400	2.5
127.8923	25.01	-6.38	14329.860	4.0	92516.650	4.0	128.2384	26.02	-4.09	63486.780	4.0	141666.530	4.0
127.9018	30.02	-2.40	142483.300	2.0	220668.300	2.0	128.2397	26.02	-2.81	122346.610	3.0	200325.560	4.0
127.9056	6.00	-2.58	16.400	1.0	78199.070	2.0	128.2416	28.01	-4.73	56075.260	2.5	134053.050	2.5
127.9147	29.02	-1.71	60804.900	4.5	138982.000	3.5	128.2449	29.01	-1.78	68447.570	3.0	146423.400	4.0
127.9229	6.00	-1.98	43.400	2.0	78215.510	3.0	128.2462	22.02	-1.54	183.700	3.0	78158.710	4.0
127.9277	26.02	-2.06	123750.390	3.0	201919.530	4.0	128.2464	26.02	-3.99	63494.560	2.0	141469.450	1.0
127.9297	28.01	-4.01	56371.410	3.5	134539.270	2.5	128.2482	25.02	-4.74	140207.090	2.5	218180.900	1.5
127.9330	25.02	-3.97	140207.090	2.5	218373.000	1.5	128.2491	9.02	-1.69	413195.000	2.5	491168.250	2.5
127.9391	28.01	-3.42	52738.450	2.5	130900.650	2.5	128.2530	25.02	-4.78	138312.700	4.5	216283.580	3.5
127.9400	28.01	-2.00	53634.620	1.5	131796.260	2.5	128.2548	25.02	-4.96	71564.210	1.5	149533.980	1.5
127.9495	28.01	-3.25	56371.410	3.5	134527.240	3.5	128.2575	29.01	-2.25	68447.570	3.0	146415.700	2.0
127.9498	26.01	-5.57	8391.920	2.5	86547.550	2.5	128.2613	18.01	-1.93	132481.140	2.5	210447.010	3.5
127.9498	6.00	-2.89	43.400	2.0	78199.070	2.0	128.2716	25.01	-3.50	31514.350	4.0	109473.900	4.0
127.9554	26.01	-5.17	8391.920	2.5	86544.140	1.5	128.2732	28.01	-2.33	23796.180	1.5	101754.800	2.5
127.9583	18.01	-2.47	132327.280	3.5	210477.770	3.5	128.2768	26.02	-4.11	121949.620	5.0	199906.030	6.0
127.9630	23.03	-1.89	147656.500	3.0	225804.100	2.0	128.2799	28.01	-3.66	24788.200	1.5	102742.740	1.5
127.9648	28.01	-3.29	58705.950	1.5	136852.440	1.5	128.2804	18.01	-2.68	132630.650	1.5	210584.880	1.5
127.9654	13.03	-1.24	682869.300	1.0	761015.400	2.0	128.2813	27.02	-4.50	47415.400	2.5	125369.100	2.5
127.9654	13.03	-1.24	682869.300	1.0	761018.400	2.0	128.2826	28.01	-1.39	52738.450	2.5	130691.350	1.5
127.9666	25.03	-1.29	131170.100	4.0	209315.500	3.0	128.2885	28.01	-4.60	8393.900	4.5	86343.210	5.5
127.9683	28.01	-4.68	29593.460	5	107737.810	1.5	128.2891	25.02	-4.52	140557.460	4.5	218506.390	3.5
127.9689	9.02	-3.87	390976.350	1.5	469120.350	1.5	128.2930	15.00	-1.77	0.000	1.5	77946.600	2.5
127.9702	9.02	-3.48	390976.350	1.5	469119.520	2.5	128.2950	28.01	-2.19	51557.850	3.5	129503.240	4.5
127.9718	25.02	-4.96	140563.030	3.5	218705.250	2.5	128.2987	26.02	-3.12	121941.290	4.0	199884.390	5.0
127.9793	10.01	-4.72	251011.180	2.5	329148.800	1.5	128.2994	28.02	-2.90	63472.600	2.0	141415.300	1.0
127.9795	26.01	-7.48	0.000	4.5	78137.530	3.5	128.2999	15.00	-1.89	0.000	1.5	77942.400	1.5
127.9795	10.01	-3.76	251011.180	2.5	329148.670	2.5	128.3005	27.01	-1.36	4028.900	4.0	81970.900	5.0
127.9796	18.01	-2.12	132327.280	3.5	210464.710	2.5	128.3065	28.02	-2.67	62606.300	3.0	140544.700	3.0
127.9890	6.00	-1.77	16.400	1.0	78148.090	2.0	128.3081	9.02	-1.12	413195.000	2.5	491132.380	3.5
127.9894	24.02	-1.76	18581.600	4.0	96713.100	3.0	128.3122	24.02	-2.67	18451.000	2.0	96385.900	2.0
127.9955	29.01	-2.26	68447.570	3.0	146575.300	2.0	128.3124	26.02	-4.41	121949.620	5.0	199884.390	5.0
128.0000	27.02	-7.87	20918.500	5	99043.500	1.5	128.3153	25.04	-1.86	184633.000	3.5	262566.000	3.5
128.0002	28.02	-2.65	79250.800	4.0	157375.700	4.0	128.3170	25.04	-2.67	183528.000	2.5	261460.000	2.5
128.0086	18.01	-1.22	132327.280	3.5	210447.010	3.5	128.3215	26.02	-5.36	42896.900	3.0	120826.170	2.0
128.0088	25.02	-4.48	140280.800	4.5	218400.400	3.5	128.3287	28.02	-4.82	56308.200	1.0	134233.100	2.0
128.0103	16.00	-1.18	573.190	0.0	78691.890	1.0	128.3302	25.03	-3.83	119961.500	3.0	197885.500	3.0
128.0135	6.00	-1.87	0.000	0.0	78116.740	1.0	128.3321	25.01	-7.91	14593.820	3.0	92516.650	4.0
128.0146	11.02	-2.08	415173.200	1.5	493289.300	1.5	128.3384	26.01	-3.55	18360.650	1.5	96279.650	2.5
128.0174	26.02	-4.93	63425.170	6.0	141539.550	6.0	128.3395	20.02	-2.65	281882.240	2.0	359800.570	3.0
128.0209	29.01	-3.22	68447.570	3.0	146559.800	4.0	128.3399	28.01	-4.30	10663.890	1.5	88582.010	1.5
128.0215	26.02	-7.24	42896.900	3.0	121008.780	3.0	128.3427	28.01	-2.78	51557.850	3.5	129474.270	3.5
128.0226	18.01	-1.73	132327.280	3.5	210438.500	4.5	128.3463	13.03	-1.69	681686.700	0.0	759600.900	1.0
128.0252	24.01	-8.23	0.000	2.5	78109.640	1.5	128.3463	13.03	-1.69	681686.700	0.0	759600.900	1.0
128.0257	25.03	-3.23	119445.500	2.0	197554.800	2.0	128.3538	26.02	-4.52	73727.640	2.0	151637.300	1.0
128.0262	29.01	-1.33	68447.570	3.0	146556.600	3.0	128.3555	24.02	-6.03	17395.500	5.0	95304.100	6.0
128.0333	6.00	-1.30	43.400	2.0	78148.090	2.0	128.3564	25.02	-4.88	140207.090	2.5	218115.150	3.5
128.0352	14.02	-1.50	165765.000	2.0	243868.500	3.0	128.3580	25.02	-4.42	43573.160	4.5	121480.240	3.5
128.0404	6.00	-2.00	16.400	1.0	78116.740	1.0	128.3585	28.01	-5.52	24835.930	5	102742.740	1.5
128.0473	28.01	-4.12	58493.210	2.5	136589.350	3.5	128.3614	26.02	-3.89	63494.000	3.0	141399.040	2.0
128.0496	26.02	-4.42	57521.700	4.0	135316.420	5.0	128.3731	28.01	-2.41	57080.550	3.5	134978.470	2.5
128.0506	28.02	-2.58	55406.100	3.0	133500.200	2.0	128.3756	18.01	-2.00	132630.650	1.5	210527.100	2.5
128.0544	23.02	-4.77	86306.400	4.5	164398.200	4.5	128.3873	25.02	-6.51	39174.400	5.5	117063.740	4.5
128.0549	28.02	-2.64	79143.300	2.0	157234.800	1.0	128.3883	15.00	-1.47	0.000	1.5	77888.700	1.5
128.0552	26.02	-4.29	122346.610	3.0	200437.940	2.0	128.3898	28.02	-4.55	55952.000	2.0	133839.800	1.0
128.0554	25.02	-4.48	32307.300	3.5	110398.500	2.5	128.3936	30.02	-6.62	140654.800	3.0	218540.300	2.0
128.0560	26.01	-5.22	8391.920	2.5	86482.750	3.5	128.3943	26.02	-2.23	121919.740	3.0	199804.810	4.0
128.0595	28.02	-3.67	53703.700	5.0	131792.400	4.0	128.3944	15.02	-1.22	109035.700	5	186920.700	1.5
128.0597	6.00	-1.87	16.400	1.0	78104.980	0.0	128.3988	18.01	-1.51	132630.650	1.5	210512.980	1.5
128.0616	26.01	-5.14	8680.470	1.5	86767.870	2.5	128.4064	25.02	-1.25	43602.500	3.5	121480.240	3.5
128.0688	26.04	-3.18	196845.000	4.0	274928.000	3.0	128.4094	24.02	-1.61	18510.000	3.0	96385.900	2.0
128.0719	25.02	-4.74	140294.440	3.5	218375.610	4.5	128.4107	26.02	-3.22	57221.700	4.0	135096.840	3.0
128.0779	28.01	-1.81	52738.450	2.5	130815.910	3.5	128.4225	26.02	-1.84	40999.870	2.0	118867.870	1.0
128.0847	6.00	-1.77	43.400	2.0	78116.740	1.0	128.4240	26.01	-5.69	8680.470	1.5	86547.550	2.5
128.0856	9.02	-4.00	391047.540	5	469120.350	1.5	128.4260	23.02	-1.11	11591.800	1.5	89457.670	2.5
128.0881	28.01	-4.70	29070.930	1.5	107142.210	1.5	128.4275	26.01	-8.32	977.030	5	78841.970	5
128.0944	27.01	-1.80	4560.800	3.0	82628.900	3.0	128.4296	26.01	-5.72	8680.470	1.5	86544.140	1.5
128.1057	28.01	-4.71	58705.950	1.5	136766.490	2.5	128.4298	26.02	-4.79	121941.290	4.0	199804.810	4.0
128.1233	28.01	-4.12	32323.540	3.5	110573.360	2.5	128.4308	9.02	-2.21	391257.420	2.5	469120.350	1.5
128.1248	15.00	-5.76	0.000	1.5	78048.900	5	128.4322	9.02	-3.24	391257.420	2.5	469119.520	2.5
128.1252	29.01	-2.21	68447.570	3.0	146496.200	3.0	128.4328	15.01	-2.09	8882.600	2.0	86744.700	1.0
128.1374	28.02	-3.14	78482.900	1.0	156524.100	2.0	128.4328	28.01	-1.36	51557.850	3.5	129419.580	4.5
128.1407	25.02	-4.67	140557.460	4.5	218596.690	5.5	128.4436	26.02	-4.69	121949.620	5.0	199804.810	4.0
128.1432	26.02	-3.63	122346.610	3.0	200384.280	3.0	128.4541	9.					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
128.5529	25.02	-4.40	32183.700	2.5	110172.690	1.5	128.8911	28.01	-3.64	58705.950	1.5	136290.830	.5
128.5542	26.02	-4.40	73849.100	1.0	151637.300	1.0	128.8917	6.00	-2.95	10192.630	2.0	87777.170	3.0
128.5545	25.02	-4.44	32184.700	1.5	110172.690	1.5	128.8948	28.01	-3.85	58705.950	1.5	136288.600	2.5
128.5626	27.01	-1.20	4560.800	3.0	82343.900	4.0	128.8984	6.00	-2.44	10192.630	2.0	87773.090	2.0
128.5643	28.01	-0.80	52205.950	3.5	129988.050	2.5	128.9024	28.01	-1.79	57080.550	3.5	134658.600	4.5
128.5643	26.02	-3.55	121919.740	3.0	199701.820	3.0	128.9034	28.02	-3.11	62606.300	3.0	140183.800	4.0
128.5669	26.02	-6.08	35803.700	2.0	113584.200	2.0	128.9056	28.01	-1.55	52205.950	3.5	129782.070	3.5
128.5689	26.01	-6.85	16369.390	3.5	94148.710	4.5	128.9129	25.01	-1.87	32856.950	3.0	110428.700	4.0
128.5747	30.02	-0.88	140071.000	1.0	217846.800	2.0	128.9283	22.02	-0.42	163.700	3.0	77746.180	3.0
128.5754	18.01	-2.25	132737.610	.5	210512.980	1.5	128.9299	28.01	-1.89	57080.550	3.5	134642.090	3.5
128.5755	24.02	-4.04	17528.800	6.0	95304.100	6.0	128.9303	28.01	-2.93	58493.210	2.5	136054.500	1.5
128.5797	25.02	-4.77	140294.440	3.5	218067.190	2.5	128.9306	6.00	-7.80	10192.630	2.0	87753.730	2.0
128.5819	9.02	-2.81	390834.600	2.5	468606.050	3.5	128.9352	26.02	-3.06	88663.870	4.0	166222.200	4.0
128.5833	15.00	-1.96	0.000	1.5	77770.600	.5	128.9352	28.01	-1.79	57420.160	2.5	134978.470	2.5
128.5843	13.03	-0.23	685732.800	2.0	763502.800	2.0	128.9363	25.02	-4.61	140557.460	4.5	218115.150	3.5
128.5843	13.03	-0.23	685732.800	2.0	763502.800	2.0	128.9369	28.01	-2.14	58493.210	2.5	136050.530	2.5
128.5865	25.02	-5.91	32404.000	.5	110172.690	1.5	128.9410	23.02	-0.05	27727.800	3.5	105282.650	2.5
128.5872	25.02	-4.90	140207.090	2.5	217975.300	2.5	128.9412	26.02	-4.71	122829.550	3.0	200384.280	3.0
128.5904	20.02	-2.38	203373.220	0.0	281139.550	1.0	128.9466	28.01	-4.43	56371.410	3.5	135922.910	4.5
128.5918	29.01	-1.91	68730.720	4.0	146496.200	3.0	128.9511	28.01	-3.33	29593.460	.5	107142.210	1.5
128.5999	26.02	-4.51	121941.290	4.0	199701.820	3.0	128.9521	28.02	-2.76	55952.000	2.0	133500.200	2.0
128.6056	25.01	-4.42	14325.860	4.0	92083.000	3.0	128.9554	15.01	-2.99	164.800	1.0	77711.000	2.0
128.6075	26.02	-2.84	122628.340	2.0	200384.280	3.0	128.9607	26.02	-4.40	82494.880	1.0	160037.900	2.0
128.6099	26.02	-3.64	57221.700	4.0	134976.220	3.0	128.9613	6.00	-4.31	10192.630	2.0	87735.300	1.0
128.6128	26.01	-8.29	384.770	3.5	78137.530	3.5	128.9620	26.01	-5.68	8846.760	.5	86388.980	.5
128.6134	25.01	-4.13	30684.810	1.0	108437.200	2.0	128.9657	28.01	-4.36	9330.040	3.5	86870.030	4.5
128.6161	25.01	-4.43	30684.810	1.0	108435.600	1.0	128.9672	26.02	-2.95	122898.840	2.0	200437.940	2.0
128.6237	22.02	-1.56	0.000	2.0	77746.180	3.0	128.9678	28.01	-4.07	56075.260	2.5	133613.990	1.5
128.6338	28.01	-1.00	51557.850	3.5	129297.910	3.5	128.9687	28.01	-2.66	58493.210	2.5	136031.430	2.5
128.6392	22.02	-0.36	421.900	4.0	78158.710	4.0	128.9714	26.02	-4.41	63466.390	5.0	141002.990	4.0
128.6394	28.01	-4.47	51557.850	3.5	129294.510	2.5	128.9730	18.02	-2.93	204563.530	1.0	282099.140	2.0
128.6430	28.01	-4.00	56075.260	2.5	133809.760	3.5	128.9763	28.01	-3.94	54262.630	3.5	131796.260	2.5
128.6430	15.00	-1.50	0.000	1.5	77734.000	2.5	128.9797	28.02	-3.85	56308.200	1.0	133839.800	1.0
128.6525	20.02	-1.17	204842.640	2.0	282571.430	1.0	128.9817	28.01	-3.95	56424.490	1.5	133954.850	.5
128.6560	28.01	-0.92	51557.850	3.5	129284.500	2.5	128.9877	26.02	-7.44	17272.800	4.0	94799.600	5.0
128.6641	26.02	-1.58	40999.870	2.0	118721.600	2.0	128.9890	29.01	-2.43	72724.000	2.0	150250.000	2.0
128.6647	28.02	-3.64	79250.800	4.0	156972.200	3.0	128.9891	6.00	-3.25	10192.630	2.0	87718.560	1.0
128.6703	29.01	-2.86	70841.300	3.0	148559.300	2.0	128.9904	26.02	-4.62	124903.920	2.0	202429.040	1.0
128.6755	26.02	-2.81	84369.920	2.0	162084.800	2.0	128.9935	30.02	-0.92	142483.300	2.0	220006.600	1.0
128.6772	28.01	-2.92	51557.850	3.5	129271.720	3.5	128.9951	25.03	-3.62	170866.300	2.0	248388.600	3.0
128.6775	24.01	-8.55	0.000	2.5	77713.660	1.5	128.9977	6.00	-2.64	10192.630	2.0	87713.380	3.0
128.6829	26.02	-4.68	69695.730	4.0	147408.140	5.0	129.0041	30.02	-0.35	141392.500	0.0	218909.400	1.0
128.6834	28.02	-2.26	79143.300	2.0	156853.400	3.0	129.0047	26.02	-2.63	122921.370	1.0	200437.940	2.0
128.6860	26.01	-5.48	8680.470	1.5	86388.980	.5	129.0063	6.00	-2.27	10192.630	2.0	87708.210	2.0
128.6865	28.01	-3.28	58493.210	2.5	136201.460	3.5	129.0139	15.02	-0.56	109409.700	1.5	186920.700	1.5
128.6884	9.02	-4.26	390976.350	1.5	468683.930	2.5	129.0152	26.01	-8.95	977.030	.5	78487.250	1.5
128.6896	28.01	-4.01	25036.380	2.5	102742.740	1.5	129.0160	26.02	-3.33	89697.520	3.0	167207.300	4.0
128.6902	27.02	-3.93	56373.800	2.5	134079.800	1.5	129.0235	25.02	-4.76	140563.030	3.5	218067.190	2.5
128.6934	26.01	-7.83	16369.390	3.5	94073.460	3.5	129.0310	28.01	-3.41	23108.280	2.5	100609.010	2.5
128.6979	26.02	-4.19	73935.960	0.0	151637.300	1.0	129.0350	28.01	-2.99	32523.540	3.5	110021.920	4.5
128.7043	24.02	-1.62	18451.000	2.0	96148.500	1.0	129.0359	28.01	-2.99	92738.450	2.5	130236.260	2.5
128.7045	26.01	-5.50	8846.760	.5	86544.140	1.5	129.0389	26.02	-2.85	122829.550	3.0	200325.560	4.0
128.7058	28.01	-3.42	57420.160	2.5	135116.720	2.5	129.0442	26.02	-2.89	88694.670	5.0	166187.500	6.0
128.7071	11.02	-4.84	367052.300	1.5	444748.100	1.5	129.0442	28.01	-2.13	58493.210	2.5	135986.060	3.5
128.7123	29.01	-1.95	68730.720	4.0	146423.400	4.0	129.0446	9.02	-2.08	391626.910	3.5	469119.520	2.5
128.7140	29.02	-2.86	62065.000	3.5	139756.600	2.5	129.0458	23.02	-1.04	11513.800	.5	89005.640	.5
128.7185	28.02	-2.73	55406.100	3.0	133095.000	3.0	129.0466	23.02	-2.51	11966.300	3.5	89457.670	2.5
128.7201	23.02	-1.41	11769.700	2.5	89457.670	2.5	129.0489	28.01	-3.80	58493.210	2.5	135983.220	1.5
128.7318	25.02	-4.60	140294.440	3.5	217975.300	2.5	129.0503	25.01	-3.64	14593.820	3.0	92083.800	3.0
128.7321	29.01	-2.85	73101.870	1.0	150782.600	2.0	129.0521	28.01	-2.77	54262.630	3.5	131750.730	3.5
128.7328	28.01	-2.46	57420.160	2.5	135100.450	3.5	129.0522	25.01	-3.79	9472.970	2.0	86961.000	1.0
128.7338	23.02	-1.20	11513.800	.5	89193.470	1.5	129.0565	26.02	-2.61	122898.840	2.0	200384.280	3.0
128.7362	27.01	-1.22	4950.000	2.0	82628.200	3.0	129.0611	12.02	-3.79	531563.000	4.0	609045.700	4.0
128.7427	29.01	-1.08	70841.300	3.0	148515.600	4.0	129.0616	12.02	-4.71	531563.000	4.0	609045.700	4.0
128.7462	29.01	-0.65	68730.720	4.0	146402.900	5.0	129.0663	28.01	-2.48	54176.260	.5	131655.830	.5
128.7495	25.02	-4.93	71564.210	1.5	149234.000	2.5	129.0674	24.02	-0.35	43286.400	4.0	120765.300	5.0
128.7584	25.02	-0.60	43602.500	3.5	121267.320	2.5	129.0680	28.01	-3.72	56424.490	1.5	133903.000	1.5
128.7607	6.00	-4.53	16.400	1.0	77679.820	2.0	129.0753	26.02	-3.83	124954.880	1.0	202429.040	1.0
128.7664	28.01	-4.08	56075.260	2.5	133735.260	2.5	129.0754	30.02	-1.70	137866.400	2.0	215340.500	2.0
128.7669	28.01	-3.88	56075.260	2.5	133734.980	3.5	129.0824	26.01	-8.82	667.640	2.5	78137.530	3.5
128.7724	15.00	-2.09	0.000	1.5	77656.400	.5	129.0911	28.01	-4.36	10663.890	1.5	88128.560	2.5
128.7727	9.01	-4.89	182864.400	1.0	260520.600	0.0	129.0925	25.01	-3.56	9472.970	2.0	86936.800	2.0
128.7747	26.02	-2.05	82382.870	3.0	160037.900	2.0	129.0966	24.02	-1.60	43286.400	4.0	120747.800	4.0
128.7806	25.02	-4.64	32384.700	1.5	110036.140	.5	129.0971	23.02	-4.95	86938.010	2.5	164399.100	3.5
128.7809	6.00	-4.29	10192.630	2.0	87843.910	1.0	129.1007	26.01	-5.29	1872.600	4.5	79331.490	3.5
128.7832	25.03	-2.02	119445.500	2.0	197095.400	1.0	129.1009	28.01	-3.52	57080.550	3.5	134539.370	2.5
128.7866	23.02	-0.38	11769.700	2.5	89417.500	3.5	129.1019	26.02	-3.84	122346.610	3.0	199804.810	4.0
128.7867	9.01	-4.42	182864.400	1.0	260512.160	1.0	129.1136	28.01	-2.74	584			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
129.1764	25.01	-4.34	31022.050	0.0	108435.600	1.0	129.5231	28.02	-4.61	55952.000	2.0	133159.300	3.0
129.1768	24.02	-3.53	43286.400	4.0	120699.700	3.0	129.5310	30.02	-2.6	142483.300	2.0	219684.900	3.0
129.1774	26.02	-3.11	84671.870	3.0	162084.800	2.0	129.5316	26.02	-3.29	124954.880	1.0	202156.130	2.0
129.1779	28.02	-3.05	63472.600	2.0	140885.200	1.0	129.5348	26.02	-4.84	34994.000	3.0	140693.360	3.0
129.1786	28.02	-3.30	55406.100	3.0	132818.300	2.0	129.5377	25.03	-3.65	112013.300	3.0	189210.900	4.0
129.1844	28.01	-2.39	58493.210	2.5	135901.960	2.5	129.5389	9.02	-1.25	389525.550	1.5	466722.420	2.5
129.1852	28.01	-4.93	54262.630	3.5	131670.870	2.5	129.5404	28.01	-2.32	58705.950	1.5	135901.960	2.5
129.1921	24.02	-5.03	17395.500	5.0	94799.600	5.0	129.5471	30.02	-1.76	140654.800	3.0	217846.800	2.0
129.1988	28.01	-2.88	53365.170	4.5	130765.260	3.5	129.5471	28.02	-3.61	56308.200	1.0	133500.220	2.0
129.2033	28.01	-2.07	53634.620	1.5	131032.010	2.5	129.5479	26.02	-4.21	116419.390	2.0	193610.920	3.0
129.2044	28.01	-4.01	52738.450	2.5	130135.190	1.5	129.5556	29.01	-2.52	73595.640	1.0	150782.600	2.0
129.2063	24.02	-4.57	43304.100	2.0	120699.700	3.0	129.5562	26.02	-4.41	116419.390	2.0	193605.990	2.0
129.2118	28.01	-3.38	53365.170	4.5	130757.510	4.5	129.5614	11.02	-2.39	147415.500	1.5	494599.000	2.5
129.2123	26.04	-4.40	187725.000	4.0	265117.000	5.0	129.5627	9.02	-2.85	389525.550	1.5	466708.250	1.5
129.2127	26.02	-2.28	89907.850	4.0	167299.600	5.0	129.5666	25.01	-2.71	33248.320	4.0	110428.700	1.0
129.2127	26.02	-1.29	89907.850	5.0	167299.600	5.0	129.5667	26.02	-5.00	116419.390	2.0	193599.740	3.0
129.2160	29.01	-3.22	73353.120	2.0	150742.900	3.0	129.5669	23.02	-4.16	87218.920	3.5	164399.100	1.5
129.2188	25.03	-3.23	171276.900	3.0	248665.000	4.0	129.5685	23.02	-4.27	87218.920	3.5	164398.200	2.5
129.2195	28.02	-3.57	55952.000	2.0	133339.700	1.0	129.5713	29.02	-1.67	67016.600	3.5	144194.200	4.5
129.2197	26.02	-1.66	89697.520	3.0	167085.120	3.0	129.5734	26.02	-3.20	124854.040	3.0	202030.380	3.0
129.2212	30.02	-1.72	140654.800	3.0	218041.500	4.0	129.5736	25.01	-2.00	32818.100	0.0	109994.300	1.0
129.2226	28.01	-1.76	53365.170	4.5	130751.030	5.5	129.5756	26.04	-2.82	186736.000	2.0	263911.000	3.0
129.2228	30.02	-1.13	140654.800	3.0	218040.500	3.0	129.5762	23.02	-1.24	11769.700	2.5	88944.380	2.5
129.2251	18.02	-2.65	204563.530	1.0	281947.880	0.0	129.5880	26.02	-4.80	146891.040	3.0	224058.700	4.0
129.2300	26.02	-2.93	122944.150	4.0	200325.560	4.0	129.5897	22.02	-3.67	0.000	2.0	77166.650	2.0
129.2310	28.02	-2.75	79143.300	2.0	156524.100	2.0	129.5946	26.02	-6.40	40999.870	2.0	118163.560	2.0
129.2357	24.02	-1.58	43321.700	3.0	120699.700	3.0	129.5998	26.02	-4.49	146891.040	3.0	224051.630	3.0
129.2379	8.02	-1.48	300310.310	1.0	377687.000	2.0	129.6015	25.01	-5.04	14901.180	1.0	92060.800	1.0
129.2514	28.01	-4.79	56075.260	2.5	133443.890	2.5	129.6016	28.03	-3.23	110402.850	4.5	187562.390	3.5
129.2546	12.03	-2.36	603143.300	3.5	680510.000	2.5	129.6044	25.01	-2.66	32836.400	1.0	109994.300	1.0
129.2563	29.01	-3.96	68850.060	0.0	146215.700	1.0	129.6171	25.01	-4.10	33278.390	3.0	110428.700	4.0
129.2598	27.02	-2.76	78927.800	3.5	156291.400	2.5	129.6183	25.03	-4.29	112882.800	5.0	190032.400	4.0
129.2691	26.01	-9.25	384.770	3.5	77742.780	2.5	129.6194	29.01	-2.19	71493.680	2.0	148642.600	2.0
129.2738	26.02	-4.65	122346.610	3.0	199701.820	3.0	129.6207	28.02	-1.73	61339.200	4.0	138487.400	3.0
129.2782	23.02	-1.83	11591.800	1.5	88944.380	2.5	129.6260	25.03	-3.51	112408.900	4.0	189553.900	5.0
129.2808	18.02	-2.94	204649.240	2.0	282000.260	1.0	129.6294	28.02	-3.68	55952.000	2.0	133095.000	3.0
129.2848	9.02	-1.70	391257.420	2.5	468606.050	3.5	129.6334	28.02	-4.00	78303.100	2.0	155443.700	2.0
129.2849	28.01	-3.06	58705.950	1.5	136054.500	1.5	129.6366	26.02	-3.15	57221.700	4.0	134360.400	4.0
129.2859	25.01	-1.76	32856.950	3.0	110204.900	3.0	129.6368	25.01	-4.13	14901.180	1.0	92039.800	2.0
129.2884	28.01	-4.09	32499.530	4.5	109846.000	3.5	129.6386	29.01	-3.32	71493.680	2.0	148631.200	3.0
129.2891	25.01	-1.70	32858.840	2.0	110204.900	3.0	129.6413	26.02	-4.01	116475.440	3.0	193611.370	4.0
129.2915	28.01	-2.41	58705.950	1.5	136050.530	2.5	129.6420	26.02	-4.60	116475.440	3.0	193610.920	3.0
129.2930	28.01	-4.48	56371.410	3.5	133715.130	4.5	129.6421	25.01	-1.85	32858.840	2.0	109994.300	1.0
129.3032	27.02	-3.20	56373.800	2.5	133711.400	2.5	129.6572	26.02	-2.96	124903.920	2.0	202030.380	3.0
129.3204	26.02	-2.96	57221.700	4.0	134549.000	3.0	129.6612	28.03	-2.73	11187.860	3.5	188311.940	2.5
129.3235	28.01	-3.13	58705.950	1.5	136031.430	2.5	129.6654	25.01	-1.98	32836.400	1.0	109958.000	0.0
129.3255	22.02	-1.75	421.900	4.0	77746.180	3.0	129.6694	28.01	-4.61	57420.160	2.5	134539.370	2.5
129.3285	28.01	-4.73	32523.540	3.5	109846.000	3.5	129.6709	26.01	-4.67	16369.390	3.5	93487.710	3.5
129.3481	28.01	-3.57	56424.490	1.5	133735.260	2.5	129.6759	26.01	-6.22	16369.390	3.5	93484.750	4.5
129.3532	28.01	-4.22	53634.620	1.5	130942.360	1.5	129.6798	24.03	-4.82	182391.000	4.5	259504.000	4.5
129.3533	28.01	-1.34	53634.620	1.5	130942.360	1.5	129.6820	25.03	-4.19	171276.900	3.0	248388.600	3.0
129.3545	10.01	-4.34	251011.180	2.5	328318.120	3.5	129.6846	26.02	-3.78	82382.870	3.0	159493.000	3.0
129.3586	26.02	-2.22	89697.520	3.0	167002.000	2.0	129.6898	28.01	-3.36	57420.160	2.5	134527.240	3.5
129.3599	25.01	-5.78	29669.110	2.0	107172.800	3.0	129.6952	28.01	-1.35	52738.450	2.5	129842.330	2.5
129.3631	25.01	-4.10	14781.190	2.0	92083.000	3.0	129.6985	24.02	-7.42	17272.800	4.0	94374.700	4.0
129.3631	18.02	-3.57	204797.370	3.0	282099.140	2.0	129.7001	25.01	-4.71	14959.840	0.0	92060.800	1.0
129.3635	26.02	-2.28	89783.590	4.0	167085.120	3.0	129.7086	28.01	-1.75	53634.620	1.5	130730.530	2.5
129.3669	25.02	-1.00	43674.700	1.5	120974.250	5	129.7319	26.02	-4.31	82410.940	2.0	159493.000	3.0
129.3670	26.02	-3.96	89907.850	4.0	167207.300	4.0	129.7325	20.02	-2.53	282075.150	0.0	359156.830	1.0
129.3670	26.02	-2.70	89907.850	5.0	167207.300	4.0	129.7417	28.01	-1.60	53634.620	1.5	130710.850	2.5
129.3688	28.01	-4.66	29070.930	1.5	106369.300	1.5	129.7435	26.01	-8.91	667.640	2.5	77742.780	2.5
129.3764	28.01	-1.96	53037.930	2.5	130331.780	1.5	129.7463	26.02	-3.92	122628.340	2.0	199701.820	3.0
129.3845	16.05	-3.44	552106.000	3.5	629395.000	3.5	129.7486	28.02	-3.21	63472.600	2.0	140544.700	3.0
129.3845	16.05	-1.89	552106.000	4.5	629395.000	3.5	129.7544	29.01	-2.43	69867.810	2.0	146936.480	2.0
129.3845	16.05	-2.01	552106.000	3.5	629395.000	2.5	129.7559	29.01	-3.38	71493.680	2.0	148559.300	2.0
129.3869	20.02	-1.90	203851.950	1.0	281139.550	1.0	129.7598	26.02	-3.82	124854.040	3.0	201919.530	4.0
129.3912	27.02	-3.42	56794.800	1.5	134079.800	1.5	129.7611	8.02	-3.99	300310.310	1.0	377375.000	2.0
129.3937	25.01	-1.34	29889.310	3.0	107172.800	3.0	129.7695	28.03	-2.95	111755.520	2.5	188815.210	1.5
129.3946	26.04	-3.20	187162.000	3.0	264445.000	4.0	129.7736	29.02	-3.06	63143.600	2.5	140200.900	1.5
129.3956	25.03	-1.58	120603.100	4.0	197885.500	3.0	129.7745	28.01	-2.57	53634.620	1.5	130691.350	1.5
129.3974	25.01	-3.28	33147.390	5.0	110428.700	4.0	129.7749	9.02	-2.47	391626.910	3.5	468683.430	2.5
129.3996	25.04	-2.20	183528.000	2.5	260808.000	1.5	129.7757	9.02	-1.10	391626.910	3.5	468682.910	3.5
129.4002	25.01	-4.40	14781.190	2.0	92060.800	1.0	129.7769	26.02	-3.11	88663.870	4.0	165719.200	4.0
129.4042	28.01	-3.78	58705.950	1.5	135983.220	1.5	129.7841	25.02	-4.36	72183.330	3.5	149234.400	2.5
129.4065	30.02	-3.70	194303.300	2.0	271579.200	3.0	129.7929	25.03	-4.00	111710.400	2.0	188756.200	3.0
129.4070	26.02	-3.03	88663.870	4.0	165939.470	5.0	129.7938	23.02	-1.54	11513.800	4.5	88559.080	1.5
129.4086	20.02	-2.20	281882.240	2.0	359156.830	1.0	129.7976	27.02	-3.81	57036.800	5	134079.800	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
129.9265	28.01	-2.77	24788.200	1.5	101754.800	2.5
129.9434	25.01	-3.41	33248.320	4.0	110204.900	3.0
129.9514	28.01	-6.22	29070.930	1.5	106022.790	.5
129.9543	28.01	-1.42	53037.930	2.5	129988.050	2.5
129.9559	20.02	-2.70	282571.430	1.0	359520.600	2.0
129.9567	27.01	-1.44	3350.500	5.0	80299.200	4.0
129.9663	11.02	-2.22	416910.200	.5	493853.200	1.5
129.9710	26.02	-3.22	122944.150	4.0	199884.390	5.0
129.9788	7.01	-4.55	15316.200	2.0	92251.800	1.0
129.9813	8.02	-2.72	300440.850	2.0	377375.000	2.0
129.9814	7.01	-5.51	15316.200	2.0	92250.300	2.0
129.9906	25.01	-3.68	31514.350	4.0	108443.000	5.0
129.9929	26.02	-4.17	73727.440	2.0	150654.900	3.0
129.9933	25.01	-4.55	31514.350	4.0	108441.400	4.0
129.9942	25.01	-4.65	33278.390	3.0	110204.900	3.0
129.9981	18.01	-3.40	132327.280	3.5	209251.460	3.5
130.0005	29.02	-1.79	118864.300	3.5	195787.100	3.5
130.0021	26.02	-2.16	93388.750	4.0	170310.600	3.0
130.0031	18.01	-4.83	132327.280	3.5	209248.550	2.5
130.0035	7.01	-4.86	15316.200	2.0	92237.200	3.0
130.0103	29.02	-2.78	62065.000	3.5	138982.000	3.5
130.0109	27.02	-4.06	56794.800	1.5	133711.400	2.5
130.0192	15.00	-4.47	0.000	1.5	76911.700	.5
130.0205	26.02	-4.86	70725.010	3.0	147635.950	3.0
130.0268	26.02	-3.20	70728.750	4.0	147635.950	3.0
130.0366	26.01	-6.28	2430.080	3.5	79331.490	3.5
130.0390	25.03	-4.04	171765.000	4.0	248665.000	4.0
130.0416	18.02	-3.56	204563.530	1.0	281461.970	2.0
130.0430	26.02	-4.27	93412.930	2.0	170310.600	3.0
130.0435	26.02	-4.13	147161.360	4.0	224058.700	4.0
130.0481	27.02	-4.81	55729.200	3.5	132623.800	3.5
130.0565	26.02	-3.87	70725.010	3.0	147614.650	2.0
130.0644	26.02	-4.40	123552.950	1.0	200437.940	2.0
130.0692	18.02	-3.05	209127.040	1.0	286009.210	2.0
130.0713	25.01	-6.11	29869.110	2.0	106750.000	2.0
130.0745	24.01	-8.23	0.000	2.5	76879.030	3.5
130.0773	26.02	-4.48	147161.360	4.0	224038.730	5.0
130.0855	8.02	-4.40	43186.000	0.0	120058.500	1.0
130.0859	26.02	-3.79	122829.550	3.0	199701.820	3.0
130.0866	14.01	-1.21	76665.610	.5	153537.500	1.5
130.0931	29.01	-4.40	71493.680	2.0	148361.700	1.0
130.0960	28.02	-3.89	55952.000	2.0	132818.300	2.0
130.0964	27.02	-2.41	79425.300	2.5	156291.400	2.5
130.1055	25.01	-8.89	29889.310	3.0	106750.000	2.0
130.1104	27.02	-4.11	55729.200	3.5	132587.000	4.5
130.1111	18.02	-2.60	209151.820	2.0	286009.210	2.0
130.1116	18.01	-3.62	132481.140	2.5	209338.210	3.5
130.1151	26.01	-6.03	2430.080	3.5	79285.100	2.5
130.1173	23.02	-3.34	87544.460	4.5	164398.200	4.5
130.1186	25.01	-4.36	14325.860	4.0	91178.800	4.0
130.1365	30.02	-9.1	144501.200	3.0	221343.600	2.0
130.1366	28.01	-3.63	57080.550	3.5	133922.910	4.5
130.1546	24.02	-4.67	20851.300	4.0	97683.000	3.0
130.1562	25.01	-2.39	29919.220	2.0	106750.000	2.0
130.1582	25.01	-6.01	9472.970	2.0	86302.550	3.0
130.1595	14.01	-1.53	76665.610	.5	153494.400	.5
130.1626	25.04	-1.82	184633.000	3.5	261460.000	2.5
130.1667	18.02	-2.45	204649.240	2.0	281473.820	3.0
130.1671	30.02	-3.34	140071.000	1.0	216895.300	1.0
130.1729	29.02	-2.09	120577.500	2.5	197398.400	2.5
130.1778	25.01	-2.62	29889.310	3.0	106707.300	4.0
130.1852	26.02	-1.47	49576.900	1.0	126390.570	1.0
130.1859	15.01	-1.17	0.000	0.0	76813.220	1.0
130.1866	28.01	-3.33	23796.180	1.5	106069.010	2.5
130.1868	18.02	-3.38	204649.240	2.0	281461.970	2.0
130.1963	9.02	-1.57	389737.630	.5	466544.700	1.5
130.2033	26.02	-4.11	122898.840	2.0	199701.820	3.0
130.2049	25.03	-4.60	112408.900	4.0	189210.900	4.0
130.2071	26.02	-6.15	42896.900	3.0	119697.640	2.0
130.2075	26.02	-1.71	89697.520	3.0	166498.000	3.0
130.2083	26.02	-3.25	83237.860	3.0	160037.900	2.0
130.2086	9.02	-2.44	389737.630	.5	466537.450	.5
130.2102	25.01	-1.62	29951.120	1.0	106750.000	2.0
130.2118	26.02	-1.06	93512.640	4.0	170310.600	3.0
130.2144	29.02	-2.39	120577.500	2.5	197373.900	3.5
130.2154	10.01	-4.36	251522.120	1.5	328317.950	2.5
130.2156	13.03	-4.46	690244.900	0.0	767040.600	1.0
130.2156	13.03	-4.46	690244.900	0.0	767040.600	1.0
130.2248	28.01	-3.21	29070.930	1.5	105861.190	2.5
130.2251	25.01	-4.32	33278.390	3.0	110068.500	2.0
130.2263	23.02	-2.53	11769.700	2.5	88559.080	1.5
130.2428	25.01	-4.33	31661.720	3.0	108441.400	4.0
130.2464	28.01	-2.25	55018.710	2.5	131796.260	2.5
130.2469	25.01	-4.88	31661.720	3.0	108439.000	3.0
130.2483	9.02	-1.97	389525.550	1.5	466301.960	2.5
130.2493	28.01	-4.10	29593.460	.5	106369.300	1.5
130.2572	26.02	-4.57	63425.170	6.0	140196.330	7.0
130.2587	18.01	-3.32	132481.140	2.5	209251.460	3.5
130.2599	9.02	-1.39	389525.550	1.5	466295.150	1.5
130.2603	28.01	-1.98	54262.630	3.5	131032.010	2.5
130.2636	18.01	-3.74	132481.140	2.5	209248.550	2.5
130.2643	24.02	-3.65	20851.300	4.0	97618.300	5.0
130.2658	28.01	-4.45	54176.260	.5	130942.360	1.5
130.2659	28.01	-3.57	54176.260	.5	130942.300	1.5
130.2765	27.02	-3.22	55729.200	3.5	132489.000	2.5
130.2792	26.01	-2.64	15844.710	4.5	92602.940	3.5
130.2801	26.02	-4.11	122944.150	4.0	199701.820	3.0
130.2823	24.02	-3.84	17272.800	4.0	94029.200	3.0
130.2826	26.02	-3.71	125672.830	2.0	204249.040	1.0
130.2847	18.02	-2.67	209127.040	1.0	285882.000	1.0
130.2853	18.01	-4.78	142186.270	4.5	218940.900	4.5
130.2853	18.01	-3.06	142186.270	4.5	218940.900	5.5
130.2869	26.02	-1.51	92523.910	5.0	169277.600	4.0
130.2907	25.02	-4.61	68892.000	3.5	145643.450	2.5
130.2949	26.04	-1.78	187162.000	3.0	263911.000	3.0
130.3031	28.01	-2.81	53037.930	2.5	129782.070	3.5
130.3035	9.02	-8.82	390077.800	2.5	466681.720	3.5
130.3052	25.03	-4.93	112013.300	3.0	188756.200	3.0
130.3080	28.01	-1.52	52738.450	2.5	129479.730	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
130.3172	28.01	-3.94	23108.280	2.5	99844.130	3.5
130.3172	28.01	-1.85	52738.450	2.5	129474.270	3.5
130.3179	25.01	-7.52	9472.970	2.0	86208.400	1.0
130.3237	28.01	-2.31	55018.710	2.5	131750.730	3.5
130.3244	13.03	-1.80	682869.300	1.0	759600.900	1.0
130.3244	13.03	-1.80	682869.300	1.0	759600.900	1.0
130.3261	28.01	-1.54	53601.190	1.5	130331.780	1.5
130.3268	18.02	-4.65	209151.820	2.0	285882.000	1.0
130.3285	28.01	-2.39	57080.550	3.5	133809.760	3.5
130.3358	28.01	-5.90	13550.390	3.5	90275.300	3.5
130.3378	26.02	-2.40	90483.590	3.0	167207.300	4.0
130.3396	29.01	-2.75	71919.930	3.0	148642.600	2.0
130.3441	26.04	-1.17	187725.000	4.0	264445.000	4.0
130.3468	28.01	-4.90	25036.380	2.5	101754.800	2.5
130.3488	25.01	-6.63	9472.970	2.0	86190.180	2.0
130.3509	26.04	-7.73	188401.000	5.0	265117.000	5.0
130.3515	18.02	-2.80	209166.350	0.0	285882.000	1.0
130.3535	30.02	-2.0	141327.000	4.0	218041.500	4.0
130.3536	26.02	-2.74	89783.590	4.0	166498.000	3.0
130.3552	30.02	-1.38	141327.000	4.0	218040.500	3.0
130.3565	26.02	-4.41	116898.220	2.0	193610.920	3.0
130.3575	26.02	-2.42	70694.030	5.0	147406.140	5.0
130.3589	29.01	-1.76	71919.930	3.0	148631.200	3.0
130.3597	9.02	-1.07	390077.800	2.5	466788.600	2.5
130.3640	9.02	-4.68	390080.300	1.5	466788.600	2.5
130.3649	26.02	-4.61	116898.220	2.0	193605.990	2.0
130.3654	29.01	-1.88	69867.810	2.0	146575.300	2.0
130.3710	18.02	-3.28	209127.040	1.0	285881.200	0.0
130.3884	9.02	-7.0	390077.800	2.5	466771.720	3.5
130.3909	25.01	-5.80	14325.860	4.0	91018.300	3.0
130.3914	28.02	-2.44	61339.200	4.0	138031.400	4.0
130.3946	25.03	-2.77	171698.300	2.0	248388.600	3.0
130.3970	29.02	-3.10	118864.300	3.5	195553.200	2.5
130.3972	29.01	-1.62	69867.810	2.0	146556.600	3.0
130.3993	26.02	-3.15	123750.390	3.0	200437.940	2.0
130.4000	26.02	-3.77	123697.180	2.0	200384.280	3.0
130.4138	26.02	-3.69	83358.880	2.0	160037.900	2.0
130.4165	26.02	-4.11	70728.750	4.0	147406.140	5.0
130.4174	23.03	-2.7	146117.700	1.0	222794.600	2.0
130.4181	18.02	-2.86	204797.370	3.0	281473.820	3.0
130.4272	28.03	-2.30	121446.090	1.5	188815.210	1.5
130.4272	25.03	-4.88	112882.800	5.0	189553.900	5.0
130.4366	14.01	-6.3	0.000	5	76665.610	5.0
130.4368	9.02	-6.1	389525.550	1.5	466191.030	2.5
130.4383	18.02	-4.39	204797.370	3.0	281461.970	2.0
130.4437	26.02	-3.28	90423.680	2.0	167085.120	3.0
130.4471	15.00	-2.32	0.000	1.5	76659.400	2.5
130.4475	15.01	-1.16	1644.800	1.0	76824.000	0.0
130.4517	24.02	-4.26	20702.000	3.0	97358.700	4.0
130.4518	25.01	-6.19	29869.110	2.0	106525.800	3.0
130.4521	12.02	-1.56	530178.200	2.0	606834.700	2.0
130.4556	28.01	-4.02	57080.550	3.5	133734.980	3.5
130.4589	12.02	-3.5	530178.200	2.0	606830.700	3.0
130.4595	28.01	-1.63	55018.710	2.5	131670.870	2.5
130.4640	20.01	-1.42	13650.190	1.5	90299.690	2.5
130.4657	28.01	-3.75	32499.530	4.5	109148.050	4.5
130.4658	15.01	-1.25	1644.800	1.0	76813.220	1.0
130.4672	28.01	-2.67	57420.160	2.5	134067.760	1.5
130.4677	28.02	-1.54	62606.300	3.0	139253.600	2.0
130.4723	9.02	-1.26	390077.800	2.5	466722.420	2.5
130.4759	30.02	-7.07	144501.200	3.0	221143.700	3.0
130.4766	9.02	-1.58	390080.300	1.5	466722.420	2.5
130.4812	29.01	-2.87	71919.930	3.0	148559.300	2.0
130.4861	25.01	-3.43	29889.310	3.0	106525.800	3.0
130.4894	28.01	-4.01	57080.550	3.5	133715.130	4.5
130.4906	26.02	-4.57	123750.390	3.0	200384.280	3.0
130.4923	28.01	-2.58	57420.160	2.5	134053.050	2.5
130.4928	26.02	-3.90	147406.140	5.0	224038.730	5.0
130.4964	9.02	-1.86	390077.800	2.5	466708.250	1.5
130.4999	29.01	-4.27	69867.810	2.0	146496.200	3.0
130.5007	9.02	-7.97	390080.300	1.5	466708.250	1.5
130.5065	28.01	-4.71	32523.540	3.5	109148.050	4.5
130.5079	24.02	-2.50	20994.600	5.0	97618.300	5.0
130.5082	28.01	-2.70	58493.210	2.5	135116.720	2.5
130.5170	28.01	-7.99	55018.710	2.5	131637.100	3.5
130.5178	18.01	-3.60	132630.650	1.5	209248.550	2.5
130.5262	29.02	-4.01	63143.600	2.5	139756.600	2.5
130.5291	9.02	-1.26	390210.430	3.5	466821.720	3.5
130.5311	25.01	-5.45	29869.110	2.0	106479.200	1.0
130.5340	28.02	-7.68	53703.700	5.0	130312.100	4.0
130.5360	28.01	-3.92	58493.210	2.5	135100.450	3.5
130.5371	25.01	-2.97	29919.220	2.0	106525.800	3.0
130.5413	24.02	-4.94	20702.000	3.0	97306.100	2.0
130.5420	23.03	-1.0	146429.300	2.0	223033.000	3.0
130.5453	28.01	-2.45	55018.710	2.5	131620.450	1.5
130.5455	28.01	-2.22	53634.620	1.5	130236.260	2.5
130.5457	26.02	-2.32	90483.590	3.0	167085.120	3.0
130.5480	15.01	-1.11	1644.800	1.0	76764.960	2.0
130.5514	24.02	-5.91	17167.400	1.0	93765.600	2.0
130.5520	28.01	-4.07	29070.930	1.5	105668.780	2.5
130.5549	18.01	-4.36	132327.280	3.5	208923.410	2.5
130.5557	29.01	-1.04	71919.930	3.0	148515.600	4.0
130.5591	14.01	-7.1	55325.440	2.5	131919.100	3.5
130.5638	28.02	-3.16	79250.800	4.0	155841.700	4.0
130.5651	26.02	-4.26	89907.850	4.0	166498.000	3.0
130.5674	25.01	-7.28	9472.970	2.0	86061.750	3.0
130.5674	20.01	-1.27	13710.880	2.5	90299.690	3.5
130.5674	20.01	-2.57	13710.880	2.5	90299.690	2.5
130.5696	9.02	-7.5	390120.770	4.5	466708.250	1.5
130.5708	26.02	-3.24	125443.580	4.0	202030.380	3.0
130.5732	20.02	-2.08	282571.430	1.0	359156.830	1.0
130.5739	25.01	-3.91	14593.820	3.0	91178.800	4.0
130.5771	25.03	-2.06	172081.900	3.0	248665.000	4.0
130.5781	26.01	-1.99	15844.710	4.5	92427.220	4.5
130.5853	26.02	-1.82	90423.680	2.0	167002.000	2.0
130.5855	9.02	-2.06	390210.430	3.5	466788.600	2.5
130.5861	25.01	-4.82	38366.070	2.0	114943.900	3.0
130.5881	9.02	-7.09	390210.430	3.5	466787.080	4.5
130.5906	26.02	-3.98	123750.390	3.0	200325.560	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
130.5937	23.02	-2.20	28746.800	2.5	105320.180	1.5	130.9270	28.01	-3.90	55417.830	3.5	131796.260	2.5
130.5943	11.05	-1.58	970835.000	1.0	1047408.000	2.0	130.9273	14.01	-4.38	287.320	1.5	76665.610	5
130.6050	9.02	-1.57	414894.890	4.5	491461.650	4.5	130.9337	28.03	-1.38	111187.860	3.5	187562.390	3.5
130.6074	9.02	.16	414894.890	4.5	491460.250	5.5	130.9350	24.02	-1.15	25725.800	3.0	102099.600	4.0
130.6098	9.02	.07	414897.720	3.5	491461.650	4.5	130.9424	20.02	-2.29	282571.430	1.0	358940.910	0.0
130.6130	29.01	-2.38	71919.930	3.0	148482.000	3.0	130.9433	28.01	-6.09	29070.930	1.5	105439.850	1.5
130.6143	9.02	-.84	390210.430	3.5	466771.720	3.5	130.9443	12.01	-2.19	35760.880	1.5	112129.200	5
130.6165	25.01	-1.15	29919.220	2.0	106479.200	1.0	130.9448	28.01	-6.14	13550.390	3.5	89918.470	4.5
130.6169	29.01	-2.39	69867.810	2.0	146427.600	1.0	130.9453	14.01	.55	55309.610	1.5	131677.400	2.5
130.6174	28.01	-3.05	52738.450	2.5	129297.910	3.5	130.9460	29.01	-2.14	68447.570	3.0	144814.930	3.0
130.6195	23.02	-1.65	11769.700	2.5	88327.960	3.5	130.9495	23.03	.05	146429.300	5.0	222794.600	2.0
130.6207	9.02	-.85	389737.630	.5	466295.150	1.5	130.9516	24.02	-3.13	20994.600	2.0	97358.700	4.0
130.6226	28.03	-1.73	111755.520	2.5	186311.940	2.5	130.9558	23.02	-2.13	11966.300	3.5	88327.960	3.5
130.6232	28.01	-2.86	52738.450	2.5	129294.510	2.5	130.9573	26.02	-4.62	63466.390	5.0	139827.170	4.0
130.6280	28.01	-2.12	54262.630	3.5	130815.910	3.5	130.9628	26.02	-3.36	125672.830	2.0	202030.380	3.0
130.6372	29.01	-3.20	69867.810	2.0	146415.700	2.0	130.9631	12.03	-2.40	604666.600	1.5	681024.000	.5
130.6372	27.02	-2.23	55729.200	3.5	132277.100	3.5	130.9700	23.01	-6.26	2687.010	2.0	79040.400	3.0
130.6403	28.01	-4.04	52738.450	2.5	129284.500	2.5	130.9706	24.03	.51	183453.000	5.5	259806.000	5.5
130.6433	13.03	.36	685732.800	2.0	762277.100	3.0	130.9724	14.01	-.59	55325.440	2.5	131677.400	2.5
130.6433	13.03	.36	685732.800	2.0	762277.100	3.0	130.9752	10.01	-3.42	252798.480	.5	329148.800	1.5
130.6458	26.02	-3.54	117068.560	3.0	193611.370	4.0	130.9809	26.02	-2.08	82382.870	3.0	158729.890	3.0
130.6466	26.02	-4.13	117068.560	3.0	193610.920	3.0	130.9825	25.01	-6.15	29919.220	2.0	106265.300	1.0
130.6486	12.02	-.99	530178.200	2.0	606719.400	2.0	130.9857	15.01	-1.10	469.000	2.0	76813.220	1.0
130.6529	28.01	-2.38	54262.630	3.5	130801.330	4.5	130.9923	26.02	-4.18	63486.780	4.0	139827.170	4.0
130.6550	26.02	-4.97	117068.560	3.0	193605.990	2.0	131.0046	26.02	-4.41	63494.000	3.0	139827.170	4.0
130.6577	23.02	-1.38	28746.800	2.5	105282.650	2.5	131.0051	28.01	-2.52	55417.830	3.5	131750.730	3.5
130.6593	12.02	-1.96	530178.200	2.0	606713.100	1.0	131.0121	30.02	-.48	141327.000	4.0	217655.800	3.0
130.6599	28.01	-4.47	54176.260	.5	130710.850	.5	131.0133	13.03	-1.20	682869.300	1.0	759197.400	0.0
130.6621	28.01	-1.72	52738.450	2.5	129271.720	3.5	131.0133	13.03	-1.20	682869.300	1.0	759197.400	0.0
130.6710	25.01	-1.42	29951.120	1.0	106479.200	1.0	131.0148	26.01	-5.78	15844.710	4.5	92171.950	4.5
130.6714	12.01	-2.69	35669.310	.5	112197.160	1.5	131.0155	6.00	-3.34	10192.630	2.0	86519.470	1.0
130.6768	26.02	-4.71	89697.520	3.0	166222.200	4.0	131.0161	25.01	-3.01	33147.390	5.0	109473.900	4.0
130.6786	25.02	-4.50	71831.980	2.5	148355.600	3.5	131.0166	26.01	-4.02	16369.390	3.5	92695.620	2.5
130.6875	26.02	-3.42	90483.590	3.0	167002.000	2.0	131.0190	12.02	-1.60	532725.700	2.0	609050.500	2.0
130.6878	23.02	-2.22	87880.850	2.5	164399.100	3.5	131.0236	26.01	-8.09	15844.710	4.5	92166.810	5.5
130.6879	26.02	-3.79	125637.980	3.0	202156.130	2.0	131.0278	12.02	-2.65	532725.700	2.0	609045.400	3.0
130.6914	25.01	-7.28	9472.970	2.0	85989.120	2.0	131.0281	12.02	-.36	532725.700	2.0	609045.400	3.0
130.6932	28.01	-4.06	54176.260	.5	130691.350	1.5	131.0291	26.02	-3.27	82410.940	2.0	158729.890	3.0
130.6952	27.01	-1.61	4028.900	4.0	80542.800	3.0	131.0357	28.01	-2.38	57420.160	2.5	133735.260	2.5
130.6974	9.02	-.55	389525.550	1.5	466038.170	2.5	131.0361	28.01	-1.92	57420.160	2.5	133734.980	3.5
130.6985	9.02	-1.94	390210.430	3.5	466722.420	2.5	131.0365	29.02	-4.10	63886.300	1.5	140200.900	1.5
130.7063	24.02	-3.32	20851.300	4.0	97358.700	4.0	131.0370	26.02	-1.64	89907.850	4.0	166222.200	4.0
130.7077	25.03	-1.67	172477.200	4.0	248983.800	5.0	131.0370	26.02	-2.33	89907.850	5.0	166222.200	4.0
130.7111	25.01	-5.94	29869.110	2.0	106373.700	2.0	131.0372	25.01	-3.81	29951.120	1.0	106265.300	1.0
130.7133	25.03	-1.51	172871.500	5.0	249374.800	6.0	131.0374	6.00	-2.99	10192.630	2.0	86506.700	2.0
130.7145	28.01	-1.32	54262.630	3.5	130765.260	3.5	131.0439	28.01	-5.68	23108.280	2.5	99418.610	3.5
130.7145	12.03	-.61	604007.400	2.5	680510.000	2.5	131.0457	28.01	-1.36	51557.850	3.5	127867.130	4.5
130.7180	28.01	-2.61	53634.620	1.5	130135.190	1.5	131.0473	24.02	-3.52	97618.300	5.0	173926.600	6.0
130.7277	28.01	-.91	54262.630	3.5	130757.510	4.5	131.0501	25.03	-3.02	172081.900	3.0	248388.600	3.0
130.7300	26.01	-7.72	2837.940	2.5	79331.490	3.5	131.0541	7.00	-1.07	28839.306	1.5	105143.680	2.5
130.7350	30.02	.13	137866.400	2.0	214357.000	1.0	131.0609	28.02	-2.93	79143.300	2.0	155443.700	2.0
130.7441	28.01	-3.03	58493.210	2.5	134978.470	2.5	131.0616	9.03	-2.48	589109.000	1.0	665409.000	2.0
130.7456	25.01	-4.85	29889.310	3.0	106373.700	2.0	131.0637	12.02	-.60	530420.600	1.0	606719.400	2.0
130.7475	26.02	-3.59	125672.830	2.0	202156.130	2.0	131.0637	6.00	-3.89	10192.630	2.0	86491.410	1.0
130.7483	28.01	-3.27	57420.160	2.5	133903.000	1.5	131.0669	20.02	-1.83	204842.640	2.0	281139.550	1.0
130.7538	25.01	-6.77	9472.970	2.0	85952.600	3.0	131.0685	15.01	-.59	469.000	2.0	76764.960	2.0
130.7709	13.03	.07	687834.700	2.0	764304.300	3.0	131.0745	12.02	-.86	530420.600	1.0	606713.100	1.0
130.7709	13.03	.07	687834.700	2.0	764304.300	3.0	131.0778	18.01	-3.84	132630.650	1.5	208921.200	1.5
130.7723	24.02	-4.87	97097.100	4.0	173565.900	5.0	131.0804	23.02	-2.24	11591.800	1.5	87880.850	2.5
130.7738	28.01	-3.78	54262.630	3.5	130730.530	2.5	131.0933	26.02	-2.78	125637.980	3.0	201919.530	4.0
130.7748	26.02	-2.74	70694.030	5.0	147161.360	4.0	131.0941	11.02	-2.21	416910.200	.5	493191.300	.5
130.7755	9.02	-2.33	390077.800	2.5	466544.700	1.5	131.0944	7.00	-1.34	28838.920	.5	105119.850	1.5
130.7798	9.02	-3.22	390080.300	1.5	466544.700	1.5	131.0950	7.00	-1.79	28839.306	1.5	105119.850	1.5
130.7875	12.01	-2.49	35669.310	.5	112129.200	.5	131.0966	26.02	-1.93	89907.850	5.0	166187.500	6.0
130.7922	9.02	-2.13	390080.300	1.5	466537.450	.5	131.0974	23.01	-3.72	106.630	2.0	76385.800	3.0
130.7968	25.01	-3.41	29919.220	2.0	106373.700	2.0	131.0994	24.03	-2.37	157369.000	2.5	233647.000	3.5
130.8053	23.03	.26	146855.100	3.0	223304.600	4.0	131.1009	27.02	-4.36	79425.300	2.5	155702.400	1.5
130.8064	26.02	-2.29	125443.580	4.0	201892.440	5.0	131.1088	28.01	-3.92	58705.950	1.5	134978.470	2.5
130.8093	26.01	-6.70	2837.940	2.5	79285.100	2.5	131.1092	26.01	-6.20	15844.710	4.5	92116.980	4.5
130.8151	28.03	-2.69	112371.430	.5	188815.210	1.5	131.1111	30.02	-.86	141392.500	0.0	217663.700	1.0
130.8177	18.01	-3.66	132481.140	2.5	208923.410	2.5	131.1122	9.02	-1.94	414897.720	3.5	491168.250	2.5
130.8181	28.01	-3.34	57420.160	2.5	133862.210	1.5	131.1126	27.01	-2.31	4028.900	4.0	80299.200	4.0
130.8215	18.01	-4.34	132481.140	2.5	208921.200	1.5	131.1149	24.02	-3.41	20851.300	4.0	97120.300	3.0
130.8239	26.02	-2.52	89783.590	4.0	166222.200	4.0	131.1153	28.01	-1.91	55417.830	3.5	131686.560	4.5
130.8249	26.01	-6.38	15844.710	4.5	92282.760	3.5	131.1219	26.01	-4.32	1872.600	4.5	78137.530	3.5
130.8255	11.02	-2.78	417415.500	1.5	493853.200	1.5	131.1275	25.01	-7.85	9472.970	2.0	85734.620	3.0
130.8278	26.02	-4.00	70725.010	3.0	147161.360	4.0	131.1288	26.01	-4.15	2430.080	3.5	78690.980	2.5
130.8279	12.01	-3.40	35760.880	1.5	112197.160	1.5	131.1363						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
131.2328	28.01	-4.44	54557.050	4.5	130757.510	4.5	131.5379	28.01	-3.19	57420.160	2.5	133443.890	2.5
131.2392	6.00	-2.83	10192.630	2.0	86389.380	2.0	131.5397	26.02	-4.18	63486.780	4.0	139509.440	5.0
131.2420	10.01	-4.89	252953.540	1.5	329148.670	2.5	131.5398	12.03	-2.28	604007.400	2.5	680030.000	1.5
131.2440	28.01	-2.64	54557.050	4.5	130751.030	5.5	131.5414	26.02	-2.47	89697.520	3.0	165719.200	4.0
131.2442	28.01	-4.90	57420.160	2.5	133613.990	1.5	131.5419	27.01	-2.04	4950.000	2.0	80971.400	1.0
131.2445	26.02	-4.15	63486.780	4.0	139680.470	3.0	131.5430	7.00	-3.02	28838.920	5	104859.700	1.5
131.2546	25.03	-2.56	172477.200	4.0	248665.000	4.0	131.5436	7.00	-3.08	28839.306	1.5	104859.700	1.5
131.2569	26.02	-3.81	63494.000	3.0	139680.470	3.0	131.5452	24.02	-2.29	25725.800	3.0	101745.300	3.0
131.2577	26.04	-2.69	187725.000	4.0	263911.000	3.0	131.5461	29.02	-2.38	62065.000	3.0	138084.000	2.5
131.2579	26.02	-4.79	63494.560	2.0	139680.470	3.0	131.5540	26.02	-1.82	90483.590	3.0	166498.000	3.0
131.2591	14.02	-3.39	82884.410	1.0	159069.610	0.0	131.5554	8.01	-2.84	185340.680	1.5	261354.300	2.5
131.2606	23.01	-3.31	36.050	1.0	76220.400	2.0	131.5559	28.01	-1.85	55018.710	2.5	131032.010	2.5
131.2619	18.01	-4.42	132737.610	.5	208921.200	1.5	131.5583	25.01	-8.50	27588.230	3.0	103600.170	2.0
131.2665	11.02	-1.59	418418.100	1.5	494599.000	2.5	131.5590	23.01	-2.51	208.890	3.0	76220.400	2.0
131.2683	26.02	-3.50	82382.870	3.0	158562.700	4.0	131.5597	24.02	-4.31	20702.000	3.0	96713.100	3.0
131.2694	24.02	-5.80	17850.000	2.0	94029.200	3.0	131.5597	25.01	-8.62	27589.030	2.0	103600.170	2.0
131.2717	23.03	.19	146855.100	3.0	223033.000	3.0	131.5673	28.01	-2.76	53496.490	5.5	129503.240	4.5
131.2733	6.00	-7.53	10192.630	2.0	86369.600	2.0	131.5679	26.02	-2.23	82410.940	2.0	158417.310	2.0
131.2734	23.01	-2.88	208.890	3.0	76385.800	3.0	131.5686	24.03	.39	182391.000	4.5	258397.000	4.5
131.2735	28.01	-2.55	58493.210	2.5	134670.070	1.5	131.5709	26.02	-4.48	123697.180	2.0	199701.820	3.0
131.2738	25.01	-4.84	37851.150	3.0	114027.800	4.0	131.5738	25.01	-6.57	14593.820	3.0	90596.800	2.0
131.2777	9.02	-4.38	390120.770	.5	466295.150	1.5	131.5738	9.03	-5.55	589406.000	3.0	665409.000	2.0
131.2814	25.02	-4.08	72183.330	3.5	148355.600	3.5	131.5741	9.02	-4.62	443770.900	3.5	519773.700	4.5
131.2855	6.00	-4.22	10192.630	2.0	86362.520	1.0	131.5842	26.02	-3.56	63466.390	5.0	139463.360	5.0
131.2866	7.00	-4.72	28839.306	1.5	105008.520	2.5	131.5859	24.03	.67	157369.000	2.5	233365.000	3.5
131.2890	28.03	-1.95	112144.090	1.5	188311.940	2.5	131.5918	6.00	-1.93	10192.630	2.0	86185.200	2.0
131.2894	26.01	-8.01	3117.480	1.5	79285.100	2.5	131.5945	13.03	.09	688313.300	2.0	764304.300	3.0
131.2903	30.02	-1.46	144501.200	3.0	220668.300	2.0	131.5945	13.03	.09	688313.300	2.0	764304.300	3.0
131.2921	26.02	-2.96	70725.010	3.0	146891.040	3.0	131.5964	25.03	-2.78	172398.700	2.0	248388.600	3.0
131.2986	26.02	-3.04	70728.750	4.0	146891.040	3.0	131.6013	9.02	-1.64	390834.600	2.5	466821.720	3.5
131.3046	26.02	-2.65	63466.390	5.0	139625.170	4.0	131.6027	9.02	-1.30	390210.430	3.5	466196.700	3.5
131.3061	27.02	-2.03	55729.200	3.5	131887.100	4.5	131.6036	7.00	-3.21	28839.306	1.5	104625.080	2.5
131.3071	7.00	-3.43	28838.920	.5	104996.240	1.5	131.6054	27.02	-7.21	23058.800	2.5	99043.500	1.5
131.3078	7.00	-4.27	28839.306	1.5	104996.240	1.5	131.6101	27.01	-2.17	4560.800	3.0	80542.800	3.0
131.3096	26.02	-2.03	89783.590	4.0	165939.470	5.0	131.6120	25.02	-1.44	68899.200	4.5	144880.100	5.5
131.3117	27.02	-3.80	55729.200	3.5	131883.900	2.5	131.6125	9.02	-2.69	390210.430	3.5	466191.030	2.5
131.3163	24.03	-2.02	157942.000	3.5	234094.000	4.5	131.6139	25.01	-2.54	38366.070	2.0	114345.870	3.0
131.3217	28.01	-2.87	58493.210	2.5	134642.090	3.5	131.6157	25.01	-2.31	38366.070	2.0	114344.840	2.0
131.3225	9.02	-4.55	443625.310	2.5	519773.700	3.5	131.6166	26.02	-1.52	50412.300	2.0	126390.570	1.0
131.3277	7.00	-3.36	28838.920	.5	104984.340	.5	131.6169	25.01	-2.36	38366.070	2.0	114344.180	1.0
131.3283	7.00	-3.66	28839.306	1.5	104984.340	.5	131.6195	26.02	-4.92	63486.780	4.0	139463.360	5.0
131.3323	9.02	-4.70	443630.960	3.5	519773.700	4.5	131.6219	26.02	-6.72	40999.870	2.0	116975.050	2.0
131.3354	23.02	-4.48	12187.000	4.5	88327.960	3.5	131.6246	28.01	-2.93	54262.630	3.5	130236.260	2.5
131.3370	10.03	-3.53	532978.000	1.5	609118.000	1.5	131.6291	7.00	-2.75	28839.306	1.5	104810.330	2.5
131.3370	10.03	-3.83	532978.000	1.5	609118.000	2.5	131.6344	26.01	-6.42	8391.920	2.5	84359.900	1.5
131.3387	6.00	-3.05	10192.630	2.0	86331.630	1.0	131.6408	24.02	-1.31	25781.000	2.0	101745.300	3.0
131.3398	26.02	-3.37	63486.780	4.0	139625.170	4.0	131.6411	28.01	-4.20	58705.950	1.5	134670.070	1.5
131.3403	28.01	-1.64	53365.170	4.5	129503.240	4.5	131.6423	9.02	-4.41	390077.800	2.5	466041.220	3.5
131.3464	6.00	-2.79	10192.630	2.0	86327.160	3.0	131.6457	18.01	-4.52	132630.650	1.5	208592.110	.5
131.3472	26.02	-4.78	83358.880	2.0	159493.000	3.0	131.6463	18.01	-4.90	132630.650	1.5	208591.780	1.5
131.3566	26.01	-7.65	3117.480	1.5	79246.130	1.5	131.6470	26.01	-6.68	16369.390	3.5	92330.100	2.5
131.3607	26.01	-4.98	3117.480	1.5	79243.730	1.5	131.6476	9.02	-2.02	390077.800	2.5	466038.170	2.5
131.3629	6.00	-1.92	10192.630	2.0	86317.640	2.0	131.6501	28.01	-1.96	54176.260	.5	130135.190	1.5
131.3734	9.02	-1.03	390077.800	2.5	466196.700	3.5	131.6519	9.02	-2.22	390080.300	1.5	466038.170	2.5
131.3798	27.02	-2.13	56373.800	2.5	132489.000	2.5	131.6557	16.00	-2.29	0.000	2.0	75955.700	3.0
131.3823	23.01	-2.72	106.630	2.0	76220.400	2.0	131.6586	9.02	-1.52	390834.600	2.5	466788.600	2.5
131.3832	9.02	-3.66	390077.800	2.5	466191.030	2.5	131.6628	16.00	-1.03	0.000	2.0	75951.570	2.0
131.3848	25.03	-2.49	172871.500	5.0	248983.800	5.0	131.6631	26.02	-4.35	123750.390	3.0	199701.820	3.0
131.3868	23.02	-2.72	11769.700	2.5	87880.850	2.5	131.6637	16.00	-2.21	0.000	2.0	75951.060	1.0
131.3875	9.02	-2.70	390080.300	1.5	466191.030	2.5	131.6838	23.03	-1.00	146855.100	3.0	222794.600	2.0
131.3877	18.01	-4.53	132481.140	2.5	208591.780	1.5	131.6869	26.02	-4.62	40999.870	2.0	116937.570	1.0
131.3903	28.01	-1.82	53365.170	4.5	129474.270	3.5	131.6879	9.02	-5.36	390834.600	2.5	466771.720	3.5
131.4017	24.02	-3.17	20994.600	5.0	97097.100	4.0	131.6905	26.02	-2.50	89783.590	4.0	165719.200	4.0
131.4066	30.02	-5.51	145243.900	2.0	221343.600	2.0	131.6955	28.01	-1.79	53365.170	4.5	129297.910	3.5
131.4131	26.02	-3.94	49576.900	1.0	125672.830	2.0	131.7045	28.01	-1.75	53496.490	5.5	129424.030	5.5
131.4144	29.01	-1.69	70841.300	3.0	146936.480	2.0	131.7077	25.02	-3.98	68892.000	3.5	144817.680	3.5
131.4192	9.02	-2.51	390210.430	3.5	466302.800	3.5	131.7114	28.01	-2.22	55018.710	2.5	130942.300	1.5
131.4207	9.02	-2.18	390210.430	3.5	466301.960	2.5	131.7122	28.01	-1.68	53496.490	5.5	129419.580	4.5
131.4332	26.02	-2.66	63425.170	6.0	139509.440	5.0	131.7134	26.02	-3.23	82494.880	1.0	158417.310	2.0
131.4333	29.01	-1.26	68730.720	4.0	144814.930	3.0	131.7158	8.01	-3.23	185340.680	1.5	261261.700	1.5
131.4398	9.02	-7.1	390210.430	3.5	466290.900	4.5	131.7198	25.01	-9.24	0.000	3.0	75918.730	2.0
131.4418	12.02	-2.88	532971.200	3.0	609050.500	2.0	131.7202	25.02	-3.27	68899.200	4.5	144817.680	3.5
131.4458	24.03	-1.15	157369.000	2.5	233446.000	2.5	131.7217	28.01	-1.14	0.000	2.5	75917.630	3.5
131.4501	12.02	-3.35	532971.200	3.0	609045.700	4.0	131.7244	26.01	-6.04	7955.240	3.5	83871.310	4.5
131.4504	26.02	-2.23	90423.680	2.0	166498.000	3.0	131.7252	24.02	-6.39	17850.000	2.0	93765.600	2.0
131.4506	12.02	-1.56	532971.200	3.0	609045.400	3.0	131.7271	23.02	-6.62	11966.300	3.5	87880.850	2.5
131.4510	12.02	-1.74	532971.200	3.0	609045.200	3.0	131.7290	26.01	-4.80	7955.240	3.5	83868.650	2.5
131.4541	23.01	-7.10	2968.220	4.0	79040.400	3.0	131.7291	26.01	-6				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
131.8477	28.01	-4.57	53634.620	1.5	129479.730	1.5	132.1713	23.03	-4.91	147135.200	2.0	222794.600	2.0
131.8487	29.02	-2.75	63143.600	2.5	138988.100	1.5	132.1729	25.01	-4.83	31514.350	4.0	107172.800	3.0
131.8501	7.00	-4.68	28839.306	1.5	104683.030	2.5	132.1734	11.02	-3.45	367052.300	1.5	442710.500	1.5
131.8506	12.03	-7.72	604666.600	1.5	680510.000	2.5	132.1783	25.01	-3.43	32787.600	4.0	108443.000	5.0
131.8564	26.01	-2.12	20516.980	2.5	96357.070	3.5	132.1791	29.01	-1.47	70841.300	3.0	146496.200	3.0
131.8583	11.05	-1.07	1071896.000	3.0	1147735.000	2.0	132.1804	28.02	-1.46	54657.900	4.0	130312.100	4.0
131.8588	27.01	-2.19	4950.000	2.0	80788.700	2.0	132.1811	25.01	-4.29	32787.600	4.0	108441.400	4.0
131.8593	29.02	-4.16	63143.600	2.5	138988.000	3.5	132.1848	23.01	-3.95	106.630	2.0	75758.290	2.0
131.8665	25.01	-2.09	38542.960	3.0	114377.250	4.0	132.1867	15.04	-1.70	391242.400	1.5	466893.000	2.5
131.8680	15.00	-1.55	0.000	1.5	75839.400	2.5	132.1867	15.04	-2.65	391242.400	1.5	466893.000	1.5
131.8726	9.02	-2.02	390210.430	3.5	466041.220	3.5	132.1879	28.01	-4.77	53634.620	1.5	129284.500	2.5
131.8779	9.02	-3.27	390210.430	3.5	466038.170	2.5	132.1889	26.01	-4.70	2837.940	2.5	78487.250	1.5
131.8823	7.00	-2.55	28838.920	.5	104664.100	1.5	132.1910	23.03	.37	147656.500	3.0	223304.600	4.0
131.8830	7.00	-1.85	28839.306	1.5	104664.100	1.5	132.2024	29.02	-3.97	77967.600	2.5	153609.200	3.5
131.8831	26.02	-7.39	42896.900	3.0	118721.600	2.0	132.2065	23.01	-3.37	208.890	3.0	75848.130	3.0
131.8899	28.01	-3.42	24788.200	1.5	100609.010	2.5	132.2187	25.02	-3.58	143345.070	3.5	218977.340	3.5
131.8970	23.02	-3.96	86809.390	5.5	162626.100	6.5	132.2221	25.02	-1.71	86892.000	3.5	144522.300	4.5
131.8986	25.02	-4.89	143161.500	4.5	218977.340	3.5	132.2268	26.01	-7.24	18360.650	1.5	93988.300	2.5
131.8990	25.01	-5.81	14781.190	2.0	90596.800	2.0	132.2304	28.02	-1.47	61339.200	4.0	136964.800	3.0
131.8996	25.01	-4.81	43370.370	3.0	119189.600	3.0	132.2322	25.01	-4.97	14325.860	4.0	89950.400	3.0
131.8999	7.00	-1.65	28838.920	.5	104654.000	.5	132.2347	25.02	-3.12	68899.200	4.5	144522.300	4.5
131.9006	7.00	-1.95	28839.306	1.5	104654.000	.5	132.2431	8.01	-2.29	185340.680	1.5	260959.000	1.5
131.9025	15.00	-1.58	0.000	1.5	75813.600	.5	132.2445	25.01	-4.31	32818.100	0.0	108435.600	1.0
131.9044	28.01	-4.57	51045.460	4.5	126857.970	5.5	132.2503	28.01	-4.90	55417.830	3.0	131032.010	2.5
131.9048	9.02	-1.36	390976.350	1.5	466788.600	2.5	132.2597	23.01	-5.65	106.630	2.0	75715.450	1.0
131.9052	11.05	-.23	1071896.000	3.0	1147708.000	2.5	132.2621	29.01	-1.77	73595.640	1.0	149203.100	0.0
131.9064	26.02	-3.33	89907.850	4.0	165719.200	4.0	132.2626	25.02	-3.86	143209.800	2.5	218816.970	2.5
131.9064	26.02	-3.77	89907.850	5.0	165719.200	4.0	132.2735	26.01	-7.15	0.000	4.5	75600.930	3.5
131.9092	30.02	.68	140654.800	3.0	216464.500	4.0	132.2737	25.01	-4.01	32836.400	1.0	108437.200	2.0
131.9103	27.02	-2.99	55729.200	3.5	131530.300	4.5	132.2743	26.01	-8.89	977.030	.5	76577.500	.5
131.9141	26.02	-3.19	49148.000	0.0	124954.880	1.0	132.2765	25.01	-4.31	32836.400	1.0	108435.600	1.0
131.9142	28.03	-1.47	111755.520	2.5	187562.390	3.5	132.2767	26.02	-2.83	82382.870	3.0	157982.000	3.0
131.9204	24.02	-4.39	63172.200	2.0	138975.500	3.0	132.2828	28.01	-1.84	56075.260	2.5	131670.870	2.5
131.9207	29.02	-3.14	67016.600	3.5	142819.700	3.5	132.2830	24.02	-1.50	25848.200	1.0	101443.700	2.0
131.9211	25.01	-2.20	38542.960	3.0	114345.870	3.0	132.2877	27.01	-3.19	4950.000	2.0	80542.800	3.0
131.9217	26.01	-7.96	16369.390	3.5	92171.950	4.5	132.2969	26.02	-4.66	116419.390	2.0	192006.940	2.0
131.9228	25.01	-2.62	38542.960	3.0	114344.840	2.0	132.3023	25.01	-3.60	32856.950	3.0	108441.400	4.0
131.9296	26.02	-2.03	73727.640	2.0	149525.630	2.0	132.3028	27.01	-3.19	5204.500	1.0	80788.700	2.0
131.9303	27.02	-2.22	56794.800	1.5	132592.400	1.5	132.3033	26.02	-3.18	124054.040	3.0	200437.940	2.0
131.9310	28.01	-1.63	55018.710	2.5	130815.910	3.5	132.3065	25.01	-4.16	32856.950	3.0	108439.000	3.0
131.9374	25.03	-3.99	172871.500	5.0	248665.000	4.0	132.3065	29.01	-2.10	70841.300	3.0	146423.400	4.0
131.9381	24.02	-3.82	18581.600	4.0	94374.700	4.0	132.3099	25.01	-3.79	32858.840	2.0	108439.000	3.0
131.9413	15.04	-1.98	391101.700	.5	466893.000	1.5	132.3107	28.01	-1.79	54262.630	3.5	129842.330	2.5
131.9447	26.02	-5.19	42896.900	3.0	118686.250	4.0	132.3119	24.03	-1.23	157942.000	3.5	233521.000	4.5
131.9452	18.01	-4.96	143371.350	1.5	219160.400	2.5	132.3130	25.01	-4.17	32858.840	2.0	108437.200	2.0
131.9592	28.02	-2.75	63472.600	2.0	139253.600	2.0	132.3133	24.02	-5.35	18451.000	2.0	94029.200	3.0
131.9603	25.02	-3.51	68892.000	3.5	144672.380	2.5	132.3134	23.02	-4.58	11966.300	3.5	87544.460	4.5
131.9670	7.00	-1.86	28838.920	.5	104615.440	1.5	132.3197	28.01	-3.25	58493.210	2.5	134067.760	1.5
131.9677	7.00	-1.41	28839.306	1.5	104615.440	1.5	132.3199	29.01	-1.95	70841.300	3.0	146415.700	2.0
131.9679	24.03	.76	157942.000	3.5	233718.000	4.5	132.3215	26.01	-7.51	3117.480	1.5	78690.980	2.5
131.9683	11.02	-2.74	417415.500	1.5	493191.300	.5	132.3230	28.01	-4.25	25036.380	2.5	100609.010	2.5
131.9826	25.02	-3.48	143209.800	2.5	218977.340	3.5	132.3258	26.02	-2.86	82410.940	2.0	157982.000	3.0
131.9838	27.01	-2.34	5204.500	1.0	80971.400	1.0	132.3264	25.01	-2.31	38806.530	4.0	114377.250	4.0
131.9871	26.02	-1.68	93512.540	4.0	169277.600	4.0	132.3276	27.02	-7.32	22720.300	5.5	98290.300	4.5
131.9881	27.02	-7.60	23058.800	2.5	98823.200	2.5	132.3304	26.02	-3.62	83161.480	4.0	158729.890	3.0
131.9911	26.01	-3.80	20516.980	2.5	96279.650	2.5	132.3305	9.02	-.92	390976.350	1.5	466544.700	1.5
131.9914	26.02	-2.41	82494.880	1.0	158257.370	1.0	132.3376	9.02	-1.67	391257.420	2.5	466821.720	3.5
131.9914	8.01	-2.68	185499.200	2.5	261261.700	1.5	132.3387	26.02	-4.47	57221.700	4.0	132785.360	4.0
132.0071	24.02	-1.80	43286.400	4.0	119039.900	5.0	132.3419	28.01	-1.21	56075.260	2.5	131637.100	3.5
132.0129	12.02	-7.77	530962.900	0.0	606713.100	1.0	132.3432	9.02	-1.36	390976.350	1.5	466537.450	.5
132.0174	26.01	-7.45	14369.390	3.5	92116.980	4.5	132.3454	28.01	-3.14	58493.210	2.5	134053.050	2.5
132.0192	28.01	-2.03	55018.710	2.5	130765.260	3.5	132.3501	30.02	-.30	142483.300	2.0	218040.500	3.0
132.0201	9.02	-.88	390976.350	1.5	466722.420	2.5	132.3507	25.02	-4.49	143148.400	1.5	218705.250	2.5
132.0280	23.01	-4.12	106.630	2.0	75848.130	3.0	132.3521	16.00	-.55	395.560	1.0	75951.570	2.0
132.0331	26.02	-2.42	90483.590	3.0	166222.200	4.0	132.3529	27.02	-1.98	57036.800	.5	132592.400	1.5
132.0334	27.01	-3.48	4560.800	3.0	80299.200	4.0	132.3530	16.00	-1.03	395.560	1.0	75951.060	1.0
132.0411	29.01	-2.93	70841.300	3.0	146575.300	2.0	132.3605	26.01	-2.50	20805.830	4.5	96357.070	3.5
132.0418	23.02	-4.13	86809.390	5.5	162543.000	5.5	132.3614	27.02	-3.00	55729.200	3.5	131279.900	3.5
132.0448	9.02	-1.20	390976.350	1.5	466708.250	1.5	132.3625	28.01	-6.27	13550.390	3.5	89100.490	3.5
132.0577	26.01	-3.99	3117.480	1.5	78841.970	.5	132.3637	23.01	-4.07	208.890	3.0	75758.290	2.0
132.0592	8.01	-2.41	185235.360	.5	260959.000	1.5	132.3696	26.02	-4.49	42896.900	3.0	118442.920	3.0
132.0616	23.01	-4.47	36.050	1.0	75758.290	2.0	132.3711	28.01	-3.13	56075.260	2.5	131620.450	1.5
132.0623	26.01	-2.97	20340.360	5.5	96062.180	5.5	132.3753	8.01	-2.43	185499.200	2.5	261042.000	2.5
132.0638	28.01	-2.43	56075.260	2.5	131796.260	2.5	132.3758	25.01	-1.80	38806.530	4.0	114349.060	5.0
132.0655	26.01	-5.69	16369.390	3.5	92089.410	3.5	132.3762	25.02	-3.72	143127.000	.5	218669.260	1.5
132.0681	29.01	-1.17	70841.300	3.0	146559.800	4.0	132.3789	29.01	-1.51	73101.870	1.0	148642.600	2.0
132.0692	24.02	-3.91	25725.800	3.0	101443.700	2.0	132.3800	23.02	-4.33	106903.350	5.5	182443.490	6.5
132.0734	23.01	-7.37	0.000	0.0	75715.450	1.0	132.3814	25.01	-3.04				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
132.4715	26.02	-1.88	50184.900	2.0	125672.830	2.0	132.7514	12.02	-0.83	531563.000	4.0	606891.800	4.0
132.4735	27.02	-6.78	23058.800	2.5	98545.600	3.5	132.7524	26.02	-4.83	147406.140	5.0	222734.330	4.0
132.4801	26.02	-3.68	124954.880	1.0	200437.940	2.0	132.7526	12.02	-2.37	531563.000	4.0	606891.100	3.0
132.4848	26.02	-3.46	124903.920	2.0	200384.280	3.0	132.7545	26.02	-2.68	49576.900	1.0	124903.920	2.0
132.4866	28.03	-0.39	110402.850	4.5	185882.170	3.5	132.7549	25.02	-7.97	39174.400	5.5	114501.180	4.5
132.4912	26.01	-5.11	8391.920	2.5	83868.650	2.5	132.7570	9.02	-0.80	390976.350	1.5	466301.960	2.5
132.4932	26.02	-3.15	40999.870	2.0	116475.440	3.0	132.7602	24.02	-4.88	63038.600	1.0	138362.400	2.0
132.4951	25.01	-3.36	14325.860	4.0	89800.340	4.0	132.7614	22.02	-0.59	8472.600	2.0	83795.700	1.0
132.4996	25.02	-4.06	143345.070	3.5	218816.970	2.5	132.7665	28.03	-0.76	111187.860	3.5	186508.070	2.5
132.5030	24.03	0.85	158638.000	4.5	234108.000	5.5	132.7690	9.02	-1.21	390976.350	1.5	466295.150	1.5
132.5061	9.02	-1.84	390834.600	2.5	466302.800	3.5	132.7703	14.02	-2.40	159069.610	0.0	234387.640	1.0
132.5076	9.02	-1.05	390834.600	2.5	466301.960	2.5	132.7729	28.01	-3.17	58493.210	2.5	133809.760	3.5
132.5107	28.01	-1.91	55299.650	4.5	130765.260	3.5	132.7754	28.01	-0.91	56371.410	3.5	131686.560	4.5
132.5118	9.02	-1.58	391257.420	2.5	466722.420	2.5	132.7764	24.02	-3.80	18451.000	2.0	93765.600	2.0
132.5171	26.01	-9.91	667.640	2.5	76129.580	1.5	132.7797	28.01	-2.10	55417.830	3.5	130730.530	2.5
132.5196	9.02	-2.04	390834.600	2.5	466295.150	1.5	132.7797	26.01	-4.97	2430.080	3.5	77742.780	2.5
132.5209	8.01	-3.30	185499.200	2.5	260959.000	1.5	132.7813	24.02	-1.35	43286.400	4.0	118598.200	3.0
132.5243	28.01	-2.04	55299.650	4.5	130757.510	4.5	132.7813	38.01	-3.32	0.000	0.0	75311.810	0.0
132.5251	29.01	-1.51	73101.870	1.0	148559.300	2.0	132.7877	26.02	-4.66	147406.140	5.0	222714.300	6.0
132.5276	24.03	-0.96	158638.000	4.5	234094.000	4.5	132.7900	23.02	-0.63	27727.800	3.5	103034.650	4.5
132.5298	23.02	-3.43	88944.380	2.5	164399.100	3.5	132.7918	7.00	-2.38	28838.920	0.5	104144.790	0.5
132.5322	26.02	-5.54	42896.900	3.0	118350.240	4.0	132.7925	7.00	-1.83	28839.306	1.5	104144.790	0.5
132.5327	26.02	-2.88	50184.900	2.0	125637.980	3.0	132.7986	24.03	-3.50	157942.000	3.5	233244.000	4.5
132.5357	28.01	-0.64	55299.650	4.5	130751.030	5.5	132.7986	25.03	-4.06	112882.800	5.0	188184.800	6.0
132.5366	9.02	-3.85	391257.420	2.5	466708.250	1.5	132.7996	26.02	-4.55	82382.870	3.0	157684.300	2.0
132.5395	23.02	-3.62	11769.700	2.5	87218.920	3.5	132.8028	26.01	-4.41	2897.940	2.5	78137.530	3.5
132.5396	26.01	-6.24	20830.520	2.5	96279.650	2.5	132.8081	25.02	-3.24	143209.800	2.5	218506.390	3.5
132.5423	24.02	-4.40	18581.600	4.0	94029.200	3.0	132.8087	11.02	-2.07	418556.900	0.5	493853.200	1.5
132.5508	29.01	-2.93	71493.680	2.0	146936.480	2.0	132.8092	28.02	-0.81	54657.900	4.0	129953.900	3.0
132.5601	26.02	-3.59	57221.700	4.0	132659.170	4.0	132.8119	25.01	-3.51	34910.430	4.0	110204.900	3.0
132.5615	28.01	-3.17	58493.210	2.5	133929.880	3.5	132.8125	24.02	-5.99	43304.100	2.0	118598.200	3.0
132.5627	25.03	-3.78	172952.600	3.0	248388.600	3.0	132.8134	25.03	-2.69	111710.400	2.0	187004.000	3.0
132.5643	11.02	-1.95	418418.100	1.5	493853.200	1.5	132.8146	26.02	-4.33	147406.140	5.0	226699.090	5.0
132.5654	25.01	-5.54	14325.860	4.0	89760.330	5.0	132.8207	29.01	-1.80	73353.120	2.0	148642.600	2.0
132.5675	26.01	-3.01	20805.830	4.5	96239.100	4.5	132.8246	9.02	-3.19	391257.420	2.5	466544.700	1.5
132.5692	28.01	-3.85	29070.930	1.5	104503.220	2.5	132.8302	14.01	-1.51	76665.610	0.5	151949.700	1.5
132.5819	28.02	-1.93	62606.300	3.0	138031.400	4.0	132.8328	13.03	-0.96	685732.800	2.0	761015.400	2.0
132.5823	28.01	-2.52	56371.410	3.5	131796.260	2.5	132.8328	13.03	-0.96	685732.800	2.0	761015.400	2.0
132.5829	27.02	-4.44	47698.600	1.5	123123.100	1.5	132.8367	30.02	0.83	141327.000	4.0	216607.400	5.0
132.5830	26.02	-3.25	83138.230	5.0	158562.700	4.0	132.8379	28.01	-6.52	14995.570	2.5	90275.300	3.5
132.5831	30.02	-1.38	145243.900	2.0	220668.300	2.0	132.8408	29.01	-1.02	73353.120	2.0	148631.200	3.0
132.5833	25.01	-4.04	35004.430	3.0	110428.700	4.0	132.8408	27.02	-4.01	57036.800	0.5	132314.900	0.5
132.5856	24.03	-0.39	157942.000	3.5	233365.000	3.5	132.8436	24.02	-2.38	43321.700	3.0	118598.200	3.0
132.5909	29.01	-1.79	73101.870	1.0	148521.800	1.0	132.8478	28.03	-1.16	111187.860	3.5	186461.990	4.5
132.5917	26.02	-3.31	40999.870	2.0	116419.390	2.0	132.8491	26.02	-3.29	82410.940	2.0	157684.300	2.0
132.6052	25.02	-2.78	68899.200	4.5	144311.000	5.5	132.8502	26.02	-4.74	69695.730	4.0	144968.500	4.0
132.6088	28.01	-3.55	58493.210	2.5	133903.000	1.5	132.8540	25.03	-1.82	112408.900	4.0	187679.500	4.0
132.6089	29.02	-3.01	67016.600	3.5	142426.300	2.5	132.8559	30.02	-0.65	140071.000	1.0	215340.500	2.0
132.6238	26.02	-4.56	83161.480	4.0	158562.700	4.0	132.8591	12.02	-2.11	531563.000	4.0	606830.700	3.0
132.6294	28.01	-1.40	55417.830	3.5	130815.910	3.5	132.8595	26.02	-3.20	93512.640	4.0	168780.100	5.0
132.6390	29.01	-2.21	71493.680	2.0	146886.310	1.0	132.8604	26.01	-8.73	862.630	1.5	76129.580	1.5
132.6412	26.02	-3.63	93388.750	4.0	168780.100	5.0	132.8610	26.02	-4.61	42896.900	3.0	118163.560	2.0
132.6450	26.02	-4.93	113635.340	4.0	189024.530	5.0	132.8627	28.01	-2.93	56371.410	3.5	131637.100	3.5
132.6524	9.03	-1.06	590024.000	2.0	665409.000	2.0	132.8718	26.02	-4.17	50412.300	2.0	125672.830	2.0
132.6548	23.02	-4.84	106903.350	5.5	182286.970	5.5	132.8730	29.01	-2.28	73101.870	1.0	148361.700	1.0
132.6550	28.01	-1.29	55417.830	3.5	130801.330	4.5	132.8732	12.03	-2.89	603143.300	3.5	678403.000	2.5
132.6559	16.05	-2.39	551848.000	2.5	627231.000	2.5	132.8757	27.02	-4.51	47864.800	0.5	123123.100	1.5
132.6559	16.05	-1.09	551848.000	3.5	627231.000	2.5	132.8792	26.01	-5.82	20805.830	4.5	90602.180	5.5
132.6559	16.05	-1.24	551848.000	2.5	627231.000	1.5	132.8805	24.02	-4.28	18510.000	3.0	93765.600	2.0
132.6565	7.00	-2.10	28838.920	0.5	104221.600	1.5	132.8834	6.00	-0.83	0.000	0.0	75253.970	1.0
132.6571	7.00	-1.47	28839.306	1.5	104221.600	1.5	132.8849	28.01	-1.92	52738.450	2.5	127991.560	3.5
132.6608	26.02	-3.90	40999.870	2.0	116380.070	1.0	132.8857	23.02	-4.20	11966.300	3.5	87218.920	3.5
132.6619	28.02	-2.08	63472.600	2.0	138852.200	3.0	132.8881	29.02	-2.34	118864.300	3.5	194115.600	3.5
132.6622	25.01	-4.13	31514.350	4.0	106893.800	5.0	132.8923	28.01	-2.55	58705.950	1.5	133954.850	0.5
132.6624	28.01	-1.44	56371.410	3.5	131750.730	3.5	132.8943	20.02	-2.17	203373.220	0.0	278621.010	1.0
132.6647	26.02	-3.77	49576.900	1.0	124954.880	1.0	132.8946	9.02	-1.43	391047.540	0.5	466295.150	1.5
132.6649	16.00	-0.91	573.190	0.0	75951.060	1.0	132.8947	26.01	-8.50	667.640	2.5	75915.210	2.5
132.6654	26.02	-3.63	50295.200	3.0	125672.830	2.0	132.8968	28.01	-1.11	56424.490	1.5	131670.870	2.5
132.6665	30.02	-1.37	145966.600	3.0	221343.600	2.0	132.8974	25.02	-4.74	143127.000	0.5	218373.000	1.5
132.6673	26.02	-4.35	113635.340	4.0	189011.840	4.0	132.8989	25.01	-4.51	14325.860	4.0	89571.030	3.0
132.6673	23.03	-0.64	147656.500	3.0	223033.000	3.0	132.9044	28.01	-3.34	58493.210	2.5	133735.260	2.5
132.6710	29.02	-3.67	63886.300	1.5	139260.700	0.5	132.9049	28.01	-2.56	58493.210	2.5	133734.980	3.5
132.6727	14.02	-3.95	175263.100	1.0	250636.550	2.0	132.9051	23.02	-1.62	16810.900	4.5	92052.550	4.5
132.6757	28.01	-2.91	56424.490	1.5	131796.260	2.5	132.9070	28.01	-1.53	54262.630	3.5	129503.240	4.5
132.6770	26.02	-3.89	83358.880	2.0	158729.890	3.0	132.9085	6.00	-0.83	16.400	1.0	75256.120	0.0
132.6770	25.03	-4.09	120603.100	4.0	195974.100	5.0	132.9100	6.00	-0.74	16.400	1.0	75255.270	2.0
132.6792	26.01	-3.88	3117.480	1.5	78487.250	1.5	132.9121	26.02	-1.88	86847.110	2.0	162084.800	2.0
132.6800	23.03	-0.28											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
132.9838	20.01	-1.26	13650.190	1.5	88847.310	2.5	133.3305	12.02	-2.08	531833.100	3.0	606834.700	2.0
132.9839	28.01	-2.13	58705.950	1.5	133903.000	1.5	133.3323	25.02	-4.19	143127.000	.5	218127.590	.5
132.9859	28.01	-1.40	56424.490	1.5	131620.450	1.5	133.3334	9.02	-3.35	418168.300	1.5	491168.250	2.5
132.9879	9.02	-1.16	391626.910	3.5	466821.720	3.5	133.3376	12.02	-2.13	531833.100	3.0	606830.700	3.0
132.9899	28.03	-1.45	111755.520	2.5	186949.220	1.5	133.3404	25.02	-4.66	71395.270	.5	146391.300	.5
132.9912	25.01	-4.92	31514.350	4.0	106707.300	4.0	133.3485	18.02	-3.18	209127.040	1.0	284118.510	1.0
132.9953	25.02	-3.76	143209.800	2.5	218400.400	3.5	133.3492	10.02	-4.38	314148.000	2.0	389139.050	3.0
132.9962	23.03	-4.62	151427.000	1.0	226617.100	1.0	133.3499	25.03	-1.67	112013.300	3.0	187004.000	3.0
132.9973	13.03	-2.97	688313.300	2.0	763502.800	2.0	133.3601	24.01	-8.20	0.000	2.5	74984.930	1.5
132.9973	13.03	-2.97	688313.300	2.0	763502.800	2.0	133.3622	10.01	-2.95	254165.010	1.5	329148.800	1.5
132.9974	26.02	-2.90	82494.880	1.0	157684.300	2.0	133.3624	10.01	-1.97	254165.010	1.5	329148.670	2.5
132.9996	26.01	-4.80	68680.470	1.5	83868.650	2.5	133.3639	9.02	-1.52	416189.420	2.5	491168.250	2.5
133.0005	26.02	-2.12	73727.640	2.0	148915.300	1.0	133.3653	28.02	-2.16	82172.900	3.0	157154.900	2.0
133.0076	30.02	-8.86	144501.200	3.0	219684.900	3.0	133.3661	23.02	-4.61	89417.500	3.5	164399.100	3.5
133.0116	28.02	-3.07	82194.300	5.0	157375.700	4.0	133.3677	23.02	-3.18	89417.500	3.5	164398.200	4.5
133.0134	30.02	-3.34	142483.300	2.0	217663.700	1.0	133.3701	26.02	-2.47	73935.960	0.0	148915.300	1.0
133.0151	26.02	-3.63	83237.860	3.0	158417.310	2.0	133.3703	25.02	-3.79	143148.400	1.5	218127.590	.5
133.0192	30.02	-1.60	145966.600	3.0	221143.700	3.0	133.3739	25.01	-3.79	14593.820	3.0	89571.030	3.0
133.0274	30.02	-1.53	142483.300	2.0	217655.800	3.0	133.3765	29.02	-1.54	120577.500	2.5	195553.200	2.5
133.0332	25.01	-5.07	14781.190	2.0	89950.400	3.0	133.3836	23.02	-3.11	11966.300	3.5	86938.010	2.5
133.0341	29.01	-2.50	73353.120	2.0	148521.800	1.0	133.3839	26.01	-2.93	21308.080	1.5	96279.650	2.5
133.0345	26.02	-2.72	118442.920	3.0	193611.370	4.0	133.3879	23.02	-4.90	87544.460	4.5	162513.800	4.5
133.0348	23.02	-3.87	11769.700	2.5	86938.010	2.5	133.3881	18.02	-3.06	209127.040	1.0	284096.260	2.0
133.0353	26.02	-3.31	118442.920	3.0	193610.920	3.0	133.3903	26.01	-2.60	18360.650	1.5	93328.600	1.5
133.0353	23.03	-3.32	151447.100	0.0	226617.100	1.0	133.3926	18.02	-4.36	209151.820	2.0	284118.510	1.0
133.0363	26.02	-1.74	50276.100	4.0	125443.580	4.0	133.3980	29.01	-2.44	73595.640	1.0	148559.300	2.0
133.0438	25.02	-3.42	143209.800	2.5	218373.000	1.5	133.3991	24.03	.28	157942.000	3.5	232905.000	3.5
133.0441	26.02	-4.15	118442.920	3.0	193605.990	2.0	133.4065	25.02	-4.12	143127.000	.5	218085.880	.5
133.0463	9.02	-2.83	391626.910	3.5	466788.600	2.5	133.4084	28.02	-2.05	82277.000	1.0	157234.800	1.0
133.0472	25.02	-3.82	143345.070	3.5	218506.390	3.5	133.4103	28.01	-1.67	56075.260	2.5	131032.010	2.5
133.0492	9.02	-1.79	391626.910	3.5	466787.080	4.5	133.4121	10.01	-4.18	219130.780	2.5	294086.490	1.5
133.0502	25.02	-3.57	143148.400	1.5	218307.980	2.5	133.4184	18.02	-3.04	209166.350	0.0	284118.510	1.0
133.0549	28.01	-2.27	54262.630	3.5	129419.580	4.5	133.4192	26.02	-3.73	125443.580	4.0	200395.330	5.0
133.0590	25.01	-2.01	38542.960	3.0	113697.600	3.0	133.4193	26.02	-4.97	121949.620	5.0	196901.270	5.0
133.0627	26.01	-9.89	977.030	.5	76129.580	1.5	133.4209	26.02	-3.74	128454.040	3.0	199804.810	4.0
133.0662	9.02	-4.28	444623.120	3.5	519773.700	4.5	133.4211	28.01	-3.83	58493.210	2.5	133443.890	2.5
133.0701	26.02	-2.90	90295.200	3.0	125443.580	4.0	133.4274	29.01	-3.47	69867.810	2.0	144814.930	3.0
133.0716	26.02	-4.96	69695.730	4.0	144843.240	5.0	133.4274	23.02	-4.89	11769.700	2.5	86716.840	1.5
133.0738	28.02	-3.08	103306.100	3.0	178452.400	2.0	133.4276	24.03	-3.50	157942.000	3.5	232889.000	3.5
133.0738	28.02	-3.16	103306.100	3.0	178452.400	3.0	133.4277	9.02	-4.33	54185.420	2.5	491132.380	3.0
133.0764	9.02	-1.22	391626.910	3.5	466771.720	3.5	133.4291	28.01	-1.23	45557.050	4.5	129503.240	4.5
133.0816	23.02	-4.59	85875.740	3.5	161017.600	3.5	133.4305	27.02	-7.00	24236.800	1.5	99182.200	.5
133.0859	25.01	-4.24	14325.860	4.0	89465.300	4.0	133.4322	18.02	-3.54	209151.820	2.0	284096.260	2.0
133.0883	23.03	-1.36	147656.500	3.0	222794.600	2.0	133.4330	24.03	-1.31	183453.000	5.5	258397.000	4.5
133.0893	30.02	-8.80	141327.000	4.0	216444.500	4.0	133.4360	12.02	-4.04	531833.100	3.0	606775.400	4.0
133.0912	20.01	-1.10	13710.880	2.5	88847.310	3.5	133.4375	23.02	-4.94	89457.670	2.5	164399.100	3.5
133.0912	20.01	-2.41	13710.880	2.5	88847.310	2.5	133.4394	29.02	-3.53	63143.600	2.5	138084.000	2.5
133.0997	26.02	-4.22	69836.830	3.0	144968.500	4.0	133.4414	9.02	-4.43	391257.420	2.5	466196.700	3.5
133.1046	29.01	-3.51	73353.120	2.0	148482.000	3.0	133.4430	26.02	-4.03	117068.560	3.0	192006.940	2.0
133.1114	23.02	-3.77	11591.800	1.5	86716.840	1.5	133.4446	25.02	-4.78	143148.400	1.5	218085.880	.5
133.1149	26.02	-2.94	84369.920	2.0	159493.000	3.0	133.4465	26.02	-3.82	121949.620	5.0	196886.010	6.0
133.1190	28.01	-4.53	58493.210	2.5	133613.990	1.5	133.4483	23.03	.30	148369.200	4.0	223304.600	4.0
133.1218	24.02	-2.34	43304.100	2.0	118423.300	2.0	133.4509	29.01	-1.91	71493.680	2.0	146427.600	1.0
133.1266	28.01	-1.72	55018.710	2.5	130135.190	1.5	133.4515	9.02	-3.69	391257.420	2.5	466191.030	2.5
133.1319	25.03	-4.17	137853.000	4.0	212966.500	5.0	133.4520	26.01	-8.26	667.640	2.5	75600.930	3.5
133.1358	27.02	-8.75	23434.300	4.5	98545.600	3.5	133.4647	29.01	-1.82	73595.640	1.0	148521.800	1.0
133.1402	28.02	-2.18	86646.200	2.0	161755.000	3.0	133.4660	25.01	-4.72	14593.820	3.0	89519.250	2.0
133.1403	26.02	-4.82	116898.220	2.0	192006.940	2.0	133.4721	29.01	-2.83	71493.680	2.0	146415.700	2.0
133.1506	25.01	-2.67	14325.860	4.0	89428.800	3.0	133.4733	10.02	-4.69	314148.000	2.0	389069.370	2.0
133.1526	29.02	-4.62	63886.300	1.5	138988.100	1.5	133.4779	25.02	-3.66	143148.400	1.5	218067.190	2.5
133.1530	24.02	-1.44	43321.700	3.0	118423.300	2.0	133.4793	24.03	-4.36	109950.000	2.5	184688.000	3.5
133.1590	25.02	-4.62	143209.800	2.5	218307.980	2.5	133.4807	28.01	-2.89	54557.050	4.5	129474.270	3.5
133.1638	9.02	-2.30	391626.910	3.5	466772.420	2.5	133.4844	15.02	-4.11	0.000	.5	74915.100	1.5
133.1654	23.03	-3.34	151427.000	1.0	226521.600	0.0	133.4874	26.01	-7.07	8391.920	2.5	83305.370	3.5
133.1751	27.02	-2.34	56794.800	1.5	131883.900	2.5	133.4917	28.02	-2.37	55952.000	2.0	130863.000	1.0
133.1884	29.01	-1.36	71493.680	2.0	146575.300	2.0	133.4935	24.03	-1.60	158536.000	1.5	233446.000	2.5
133.1913	24.03	-2.27	158638.000	4.5	233718.000	4.5	133.4970	28.01	-3.69	58705.950	1.5	133613.990	1.5
133.2002	23.02	-1.06	16977.600	5.5	92052.550	4.5	133.5005	27.02	-2.74	56373.800	2.5	131279.900	3.5
133.2024	28.03	-2.51	112144.090	1.5	187217.800	.5	133.5007	28.02	-2.57	55406.100	3.0	130312.100	4.0
133.2042	27.02	-3.01	55729.200	3.5	130801.900	4.5	133.5018	25.02	-4.17	143209.800	2.5	218115.150	3.5
133.2157	26.02	-2.82	73849.100	1.0	148915.300	1.0	133.5027	26.01	-4.52	2837.940	2.5	77742.780	2.5
133.2195	25.01	-4.53	35004.430	3.0	110068.500	2.0	133.5122	23.02	-4.16	16810.900	4.5	91710.430	3.5
133.2216	29.01	-1.18	71493.680	2.0	146556.600	3.0	133.5128	20.02	-4.48	208442.640	2.0	279741.800	2.0
133.2235	9.02	-1.87	390976.350	1.5	466308.170	2.5	133.5140	26.02	-3.74	83358.880	2.0	158257.370	1.0
133.2291	12.02	-1.57	531833.100	3.0	606891.800	4.0	133.5182	7.00	-4.26	28839.304	1.5	103735.450	2.5
133.2295	26.02	-2.97	83358.880	2.0	158417.310	2.0	133.5201	28.01	-4.27	1506.940	1.5	76402.030	2.5
133.2303	12.02	-1.89	531833.100	3.0	606891.100	3.0	133.5206	29.02	-3.95	122503.600	3.5	197398.400	2.5
133.2350	25.02												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
133.6394	7.00	-3.94	28838.920	5	103667.130	1.5	133.9490	28.01	-1.73	56075.260	2.5	130730.530	2.5
133.6401	7.00	-3.12	28839.306	1.5	103667.130	1.5	133.9585	24.03	-0.36	159458.000	5.5	234108.000	5.5
133.6414	25.02	-3.94	71564.210	1.5	146391.300	5	133.9597	27.02	-2.51	98545.600	3.5	173194.900	2.5
133.6418	25.02	-4.32	143148.400	1.5	217975.300	2.5	133.9628	25.01	-4.03	14781.190	2.0	89428.800	3.0
133.6445	28.01	-4.22	56075.260	2.5	130900.650	2.5	133.9671	26.01	-7.29	21711.890	3.5	96357.070	3.5
133.6476	28.01	-3.18	55018.710	2.5	129842.330	2.5	133.9693	22.02	-1.30	8472.600	2.0	83116.580	3.0
133.6505	9.03	-2.86	588021.000	2.0	662843.000	3.0	133.9709	38.01	-5.82	0.000	0.0	74643.075	0.0
133.6521	26.02	-3.25	84671.870	3.0	159493.000	3.0	133.9767	29.01	-1.27	71919.930	3.0	146559.800	4.0
133.6532	26.02	-4.22	83161.480	4.0	157982.000	3.0	133.9823	26.02	-2.91	63466.390	5.0	138103.120	4.0
133.6569	28.01	-2.69	55417.830	3.5	130236.260	2.5	133.9824	29.01	-3.94	71919.930	3.0	146556.600	3.0
133.6668	27.01	-5.86	11321.500	2.0	86134.400	1.0	133.9836	24.03	-0.23	184868.000	3.5	259504.000	4.5
133.6679	25.03	-2.05	137853.000	4.0	212665.300	4.0	133.9836	24.03	-0.26	159458.000	5.5	234094.000	4.5
133.6708	26.01	-4.48	21251.550	6.5	96062.180	5.5	133.9865	11.02	-1.29	418556.900	5	493191.300	5
133.6743	26.01	-4.23	21430.390	5.5	96239.100	4.5	133.9912	26.01	-4.61	21430.390	5.5	96062.180	5.5
133.6760	28.01	-4.19	25036.380	2.5	99844.130	3.5	133.9926	24.03	-0.77	157942.000	3.5	232573.000	2.5
133.6763	27.02	-3.34	99043.500	1.5	173851.100	5	133.9954	26.02	-4.41	63425.170	6.0	138054.590	5.0
133.6763	27.02	-3.34	99043.500	1.5	173851.100	5	133.9962	16.05	-1.19	522248.000	1.5	596877.000	2.5
133.6779	27.02	-7.46	24236.800	1.5	99043.500	1.5	133.9962	16.05	-2.15	522248.000	1.5	596877.000	1.5
133.6793	26.02	-2.30	73849.100	1.0	148655.000	0.0	134.0009	28.01	-1.47	53365.170	4.5	177991.560	3.5
133.6807	28.03	-0.73	112144.090	1.5	186949.220	1.5	134.0028	26.01	-3.97	3117.480	1.5	12742.780	2.5
133.6896	25.01	-5.49	14325.860	4.0	89126.000	3.0	134.0033	26.02	-6.86	42896.900	3.0	117521.910	4.0
133.6911	28.02	-1.12	82172.900	3.0	156972.200	3.0	134.0067	26.02	-3.86	83358.880	2.0	157982.000	3.0
133.6933	26.02	-3.98	63466.390	5.0	138264.470	6.0	134.0080	23.02	-4.68	12187.000	4.5	86809.390	5.5
133.6936	26.02	-3.95	124903.920	2.0	199701.820	3.0	134.0097	28.01	-7.10	13550.390	3.5	88171.880	4.5
133.6957	25.03	-0.99	112882.800	5.0	187679.500	4.0	134.0100	38.01	-6.01	0.000	0.0	74621.297	0.0
133.6986	25.01	-6.74	9472.970	2.0	84268.060	1.0	134.0107	23.02	-3.55	109854.870	3.5	184475.800	4.5
133.6998	30.02	-5.00	233610.400	2.0	308404.800	2.0	134.0123	9.03	-1.31	588223.000	3.0	662843.000	3.0
133.7080	25.01	-4.70	14781.190	2.0	89571.030	3.0	134.0158	25.01	-5.55	14901.180	1.0	89519.250	2.0
133.7147	30.02	-3.85	233610.400	2.0	308396.500	3.0	134.0189	26.02	-3.00	63486.780	4.0	138103.120	4.0
133.7147	27.02	-3.24	98823.200	2.5	173609.300	1.5	134.0194	28.01	-2.10	56075.260	2.5	130691.350	1.5
133.7188	9.02	-0.97	391257.420	2.5	466041.220	3.5	134.0296	26.02	-2.67	83646.980	1.0	158257.370	1.0
133.7192	7.00	-3.86	28838.920	5	103622.480	5	134.0319	26.02	-3.92	63494.000	3.0	138103.120	4.0
133.7199	7.00	-2.29	28839.306	1.5	103622.480	5	134.0324	27.02	-4.34	72341.900	1.5	146950.700	2.5
133.7243	9.02	-2.45	391257.420	2.5	466038.170	2.5	134.0326	26.02	-3.27	50295.200	3.0	124903.920	2.0
133.7276	23.02	-3.97	86306.400	4.5	161085.000	4.5	134.0347	28.01	-2.94	56424.490	1.5	131032.010	2.5
133.7333	26.02	-2.48	92523.910	5.0	167299.600	5.0	134.0375	28.01	-1.19	57080.550	3.5	131686.560	4.5
133.7338	26.01	-4.61	21581.640	4.5	96357.070	3.5	134.0375	24.03	-0.38	158638.000	4.5	233244.000	4.5
133.7378	11.02	-1.92	418418.100	1.5	493191.300	5	134.0523	25.02	-3.82	143209.800	2.5	217807.570	1.5
133.7422	25.01	-3.90	14325.860	4.0	89096.560	4.0	134.0556	18.02	-3.71	157031.400	1.0	231627.300	1.0
133.7429	26.02	-3.49	83646.980	1.0	158417.310	2.0	134.0571	25.03	-1.14	112408.900	4.0	187004.000	3.0
133.7435	26.02	-2.89	50184.900	2.0	124954.880	1.0	134.0588	14.02	-4.58	175263.100	1.0	249857.260	0.0
133.7452	20.02	-3.37	203851.950	1.0	278621.010	1.0	134.0653	30.02	-3.07	142483.300	2.0	217073.800	2.0
133.7471	18.02	-1.71	209151.820	2.0	283919.780	3.0	134.0657	28.01	-4.04	57080.550	3.5	131670.870	2.5
133.7505	29.01	-1.89	73595.640	1.0	148361.700	1.0	134.0666	30.02	-4.52	236560.000	0.0	311149.800	1.0
133.7508	15.02	-2.23	116873.600	1.5	191639.500	1.5	134.0695	26.02	-2.89	63466.390	5.0	138054.590	5.0
133.7522	26.02	-4.06	25672.830	2.0	200437.940	2.0	134.0727	27.02	-7.25	24236.800	1.5	98823.200	2.5
133.7565	30.02	-2.10	145243.900	2.0	220006.600	1.0	134.0820	29.02	-1.40	121863.700	1.5	196444.900	1.5
133.7565	25.03	-3.13	119445.500	2.0	194208.200	3.0	134.0875	28.01	-5.76	13550.390	3.5	88128.560	2.5
133.7710	15.02	-1.28	118884.900	2.5	191639.500	1.5	134.0879	26.02	-4.64	50276.100	4.0	124854.040	3.0
133.7747	28.03	-0.59	111755.520	2.5	186508.070	2.5	134.0882	28.03	-1.67	112371.430	5	186949.220	1.5
133.7773	24.02	-1.61	43304.100	2.0	118055.200	2.0	134.0909	29.01	-1.35	71919.930	3.0	146496.200	3.0
133.7859	26.02	-3.36	125637.980	3.0	200384.280	3.0	134.1016	26.02	-3.28	84159.550	4.0	158729.890	3.0
133.7864	24.03	-1.71	158901.000	2.5	233647.000	3.5	134.1026	9.02	-2.44	391626.910	3.5	466196.700	3.5
133.7956	28.01	-1.34	54557.050	4.5	129297.910	3.5	134.1055	26.02	-4.89	11510.920	4.0	189679.070	3.0
133.7960	28.01	-1.49	56075.260	2.5	130815.910	3.5	134.1061	26.02	-3.49	63486.780	4.0	138054.590	5.0
133.8005	26.02	-3.27	118867.870	1.0	193605.990	2.0	134.1062	26.01	-4.31	21711.890	3.5	96279.650	2.5
133.8006	25.01	-4.35	14781.190	2.0	89519.250	2.0	134.1079	28.02	-4.59	71383.700	2.0	145950.500	1.0
133.8009	28.01	-4.04	58705.950	1.5	133443.890	2.5	134.1097	27.02	-3.28	99043.500	1.5	173609.300	1.5
133.8030	25.01	-4.25	14325.860	4.0	89062.180	5.0	134.1128	9.02	-3.40	391626.910	3.5	466191.030	2.5
133.8058	25.03	-0.62	137930.100	5.0	212665.300	4.0	134.1139	25.01	-4.43	34910.430	4.0	109473.900	4.0
133.8079	24.03	-0.80	159360.000	3.5	234094.000	4.5	134.1166	26.02	-4.20	77075.300	1.0	151637.300	1.0
133.8084	26.02	-4.95	69836.830	3.0	144570.530	3.0	134.1223	26.02	-3.33	50295.200	3.0	124854.040	3.0
133.8101	26.02	-4.74	69837.760	2.0	144570.530	3.0	134.1226	28.01	-4.01	32523.540	3.5	107082.210	2.5
133.8108	11.02	-2.89	418556.900	5	493289.300	1.5	134.1230	26.02	-4.75	113584.200	2.0	188142.640	2.0
133.8109	27.02	-3.76	72083.300	4.5	146815.600	3.5	134.1264	28.01	-3.28	57080.550	3.5	131637.100	3.5
133.8117	26.02	-3.16	118867.870	1.0	193599.740	1.0	134.1295	28.02	-2.67	56308.200	1.0	130863.000	1.0
133.8197	26.02	-3.52	118867.870	1.0	193595.300	0.0	134.1398	24.01	-9.13	11962.000	5	86511.080	1.5
133.8204	24.03	-2.04	158638.000	4.5	233365.000	3.5	134.1403	28.02	-3.75	82826.900	4.0	157375.700	4.0
133.8269	18.02	-2.87	157031.400	1.0	231754.800	0.0	134.1421	28.02	-1.31	55406.100	3.0	129953.900	3.0
133.8292	25.02	-3.85	143345.070	3.5	218067.190	2.5	134.1427	26.02	-4.48	113584.200	2.0	188131.700	1.0
133.8294	29.01	-4.01	71493.680	2.0	146215.700	1.0	134.1448	25.03	-0.68	137893.000	4.0	212399.300	3.0
133.8347	26.02	-3.59	50184.900	2.0	124903.920	2.0	134.1472	24.03	-3.36	158901.000	2.5	233446.000	2.5
133.8365	24.01	-6.72	0.000	2.5	74718.050	1.5	134.1515	26.02	-4.40	50412.300	2.0	124954.880	1.0
133.8407	28.01	-2.11	57080.550	3.5	131796.260	2.5	134.1520	29.02	-2.09	62065.000	3.5	136607.300	2.5
133.8425	28.01	-3.50	54557.050	4.5	129271.720	3.5	134.1591	26.02	-4.94	66464.640	3.0	141002.990	4.0
133.8471	25.01	-3.33	34761.810	5.0	109473.900	4.0	134.1611	26.02	-3.97	113605.370	3.0	188142.640	2.0
133.8483	26.02	-4.15	125672.830	2.0	200384.280	3.0	134.1630	14.02	-2.30	175230.010	0.0	249766.190	1.0
133.8641	18.02	-3.19	156										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
134.3083	28.01	-3.91	55018.710	2.5	129474.270	3.5	134.6376	24.01	-9.14	0.000	2.5	74273.480	1.5
134.3100	27.02	-2.85	55729.200	3.5	130183.800	3.5	134.6448	25.02	-2.44	68892.000	3.5	143161.500	4.5
134.3128	25.02	-3.62	68892.000	3.5	143345.070	3.5	134.6466	12.02	-2.91	534776.900	2.0	609045.200	3.0
134.3185	29.02	-2.12	121337.200	4.5	195787.100	3.5	134.6469	12.02	-4.43	534776.900	2.0	609045.200	3.0
134.3248	26.02	-4.79	83237.860	3.0	157684.300	2.0	134.6493	24.03	-6.66	158638.000	4.5	232905.000	3.5
134.3256	26.04	-1.54	143255.860	4.0	88772.300	5.0	134.6578	25.02	-6.64	68899.200	4.5	143161.500	4.5
134.3258	25.02	-3.54	186736.000	2.0	261182.000	3.0	134.6620	24.03	-2.10	159458.000	5.5	233718.000	4.5
134.3283	28.01	-1.84	68899.200	4.5	143345.070	3.5	134.6652	26.02	-4.69	525443.580	4.0	199701.820	3.0
134.3320	13.03	-4.45	56371.410	3.5	130815.910	3.5	134.6673	27.02	-4.36	98545.600	3.5	172802.700	2.5
134.3320	16.03	-4.45	687834.700	2.0	762277.100	3.0	134.6747	28.01	-3.25	55018.710	2.5	129271.720	3.5
134.3330	23.01	-3.86	687834.700	2.0	762277.100	3.0	134.6783	24.03	-3.76	158638.000	4.5	232889.000	3.5
134.3332	26.02	-2.36	18886.750	5	93328.600	1.5	134.6788	28.01	-4.34	57420.160	2.5	131670.870	2.5
134.3346	30.02	-3.30	50412.300	2.0	124854.040	3.0	134.6854	28.02	-2.77	82277.000	1.0	155524.100	2.0
134.3349	26.02	-2.91	145243.900	2.0	219684.900	3.0	134.6861	25.03	-1.77	119961.500	3.0	194208.200	3.0
134.3399	10.01	-4.73	125443.580	4.0	199884.390	5.0	134.6884	14.01	-5.55	42932.680	1.5	117178.120	2.5
134.3433	24.01	-9.41	219648.440	1.5	294086.490	1.5	134.6983	15.02	-7.78	173988.400	1.5	248228.400	1.5
134.3546	28.01	-1.39	0.000	2.5	74436.140	2.5	134.6987	26.02	-2.66	70728.750	4.0	144968.500	4.0
134.3546	14.02	-1.60	56371.410	3.5	130801.330	4.5	134.7041	23.03	-1.40	151567.300	2.0	225804.100	2.0
134.3552	20.02	-1.35	175336.260	2.0	249766.190	1.0	134.7052	25.02	-3.49	144959.740	4.5	219195.950	4.5
134.3597	27.02	-2.84	290934.300	0.0	365363.880	1.0	134.7055	24.03	-2.26	159872.000	4.5	234108.000	5.5
134.3609	9.01	-2.67	99182.200	5	173609.300	1.5	134.7090	25.02	-3.45	17831.980	2.5	145066.070	1.5
134.3644	28.01	-1.76	182864.400	1.0	257290.840	2.0	134.7240	23.03	-2.61	146117.700	1.0	220343.500	1.0
134.3649	18.02	-4.17	55417.830	3.5	129842.330	2.5	134.7240	17.00	-2.28	0.000	1.5	74225.846	1.5
134.3655	24.01	-7.30	156917.620	3.0	231341.800	2.0	134.7285	8.02	-8.80	376067.660	2.0	450291.000	1.0
134.3777	18.02	-4.95	0.000	2.5	74423.840	3.5	134.7288	30.02	-7.75	140654.800	3.0	214878.000	3.0
134.3815	15.02	-2.25	156924.680	2.0	231341.800	2.0	134.7306	26.01	-9.48	384.770	3.5	74606.970	2.5
134.3822	26.03	-2.97	173813.400	2.5	248228.400	1.5	134.7309	24.03	-5.7	159872.000	4.5	234094.000	4.5
134.3828	9.02	-2.83	128190.100	2.5	202604.700	3.5	134.7446	23.02	-7.73	28746.800	2.5	102961.280	3.5
134.3869	30.02	-1.10	391626.910	3.5	466041.220	3.5	134.7509	15.02	1.07	173988.400	1.5	248199.400	2.5
134.3883	9.02	-4.03	142483.300	2.0	216895.300	1.0	134.7593	28.02	-3.10	62606.300	3.0	136812.700	2.0
134.3895	30.02	-4.37	391626.910	3.5	466038.170	2.5	134.7618	25.02	-7.74	68892.000	3.5	143097.000	3.5
134.3997	26.02	-4.01	233610.400	2.0	308021.000	2.0	134.7644	28.01	-2.42	55299.650	4.5	129503.240	4.5
134.4029	26.02	-2.55	49148.000	0.0	123552.950	1.0	134.7647	24.01	-9.08	12303.980	3.5	86507.380	2.5
134.4034	9.01	-2.89	84159.550	4.0	158562.700	4.0	134.7691	28.02	-2.18	83033.800	2.0	157234.800	1.0
134.4135	26.03	-2.86	182864.400	1.0	257267.300	1.0	134.7704	28.01	-4.97	57420.160	2.5	131620.450	1.5
134.4166	12.03	-1.86	172928.100	1.5	202325.400	2.5	134.7749	25.02	-2.28	68899.200	4.5	143097.000	3.5
134.4197	28.01	-2.00	604007.400	2.5	678403.000	2.5	134.7751	29.02	-4.21	68899.200	4.5	138084.000	2.5
134.4247	27.01	-7.88	56371.410	3.5	130765.260	3.5	134.7760	8.02	-3.35	306584.800	2.0	380782.000	3.0
134.4262	26.02	-4.79	11321.500	2.0	85712.600	2.0	134.7763	24.03	-4.5	159458.000	5.5	233655.000	5.5
134.4295	9.01	-3.37	69695.730	4.0	144085.970	4.0	134.7927	26.02	-4.44	69695.730	4.0	143883.740	5.0
134.4319	11.02	-4.69	182864.400	1.0	257252.840	0.0	134.8019	26.02	-1.94	87901.870	3.0	162084.800	2.0
134.4337	28.01	-2.28	366165.300	2.5	440552.400	3.5	134.8114	25.01	-3.68	14901.180	1.0	89078.900	2.0
134.4339	15.02	-7.1	56371.410	3.5	130757.510	4.5	134.8146	9.02	-3.81	395385.660	2.5	469561.560	1.5
134.4353	25.01	-9.1	173813.400	2.5	248199.400	2.5	134.8170	28.01	-2.81	55299.650	4.5	129474.270	3.5
134.4357	15.02	-1.3	32787.600	4.0	107172.800	3.0	134.8224	26.02	-5.76	42896.900	3.0	117068.560	3.0
134.4407	28.01	-4.14	559.600	1.5	74944.600	2.5	134.8266	8.02	-5.7	376067.660	2.0	450237.000	2.0
134.4482	26.02	-2.46	25036.380	2.5	99418.610	3.5	134.8290	24.03	-1.98	110700.000	3.5	184868.000	3.5
134.4500	23.03	-1.00	113635.340	4.0	188013.400	4.0	134.8312	26.02	-2.51	125637.980	3.0	199804.810	4.0
134.4518	28.01	-4.07	151427.000	1.0	225804.100	2.0	134.8335	28.01	-2.06	23108.280	2.5	97273.830	2.5
134.4560	8.03	-8.0	57420.160	2.5	131796.260	2.5	134.8338	12.02	-5.50	532755.700	2.0	606891.100	3.0
134.4561	24.02	-3.54	499994.900	5	574368.700	1.5	134.8418	28.01	-2.68	56075.260	2.5	130236.260	2.5
134.4597	27.02	-4.37	25725.800	3.0	100099.500	4.0	134.8418	24.03	-3.00	159360.000	3.5	233521.000	4.5
134.4617	28.01	-1.18	98823.200	2.5	173194.900	2.5	134.8442	25.02	-3.47	144817.680	3.5	218977.340	3.5
134.4719	9.03	-2.4	53496.490	5.5	127867.130	4.5	134.8449	15.02	-6.7	174106.200	5	248265.500	5
134.4737	28.03	-2.05	588478.000	4.0	662843.000	3.0	134.8536	26.03	-2.72	127928.100	1.5	202082.600	1.5
134.4753	24.01	-9.51	112144.090	1.5	186508.070	2.5	134.8543	14.01	-5.7	42824.350	5	116978.440	1.5
134.4787	26.02	-3.61	12148.000	2.5	86511.080	1.5	134.8570	26.03	-2.84	127764.700	5	201917.300	5
134.4825	28.01	-2.25	125443.580	4.0	199804.810	4.0	134.8592	27.02	-4.94	99043.500	1.5	173194.900	2.5
134.4836	28.02	-2.40	56371.410	3.5	130730.530	2.5	134.8592	27.02	-4.94	99043.500	1.5	173194.900	2.5
134.4845	24.03	-5.4	62606.300	3.0	136964.800	3.0	134.8592	27.02	-2.41	99043.500	1.5	173194.900	2.5
134.4890	15.02	-8.6	159360.000	3.5	233718.000	4.5	134.8608	18.01	-2.40	132481.140	2.5	206631.670	2.5
134.4899	15.02	-1.35	559.600	1.5	74915.100	1.5	134.8629	14.02	-1.12	176487.190	1.0	250636.550	2.0
134.4968	28.02	-3.19	173813.400	2.5	248168.400	3.5	134.8703	28.02	-2.34	82826.900	4.0	156972.200	3.0
134.5041	23.02	-2.63	82172.900	3.0	156524.100	2.0	134.8716	25.02	-3.69	144672.380	3.5	218816.970	2.5
134.5084	25.01	-5.55	27727.800	3.5	102075.000	2.5	134.8724	23.02	-4.85	109854.870	3.5	183999.000	3.5
134.5169	23.02	-6.06	14781.190	2.0	89126.000	3.0	134.8751	18.01	-9.5	132481.140	2.5	206623.800	3.5
134.5197	26.02	-3.39	11966.300	3.5	86306.400	4.5	134.8885	26.03	-2.75	128190.100	2.5	202325.400	2.5
134.5236	26.02	-3.79	63425.170	6.0	137763.700	5.0	134.9028	26.01	-7.44	13474.430	2.5	87601.900	1.5
134.5240	27.01	-5.77	113677.010	5.0	188013.400	4.0	134.9038	12.02	-3.00	534923.600	3.0	609050.500	2.0
134.5262	26.01	-2.49	10708.100	3.0	85044.300	3.0	134.9042	28.03	-3.06	111755.520	2.5	185882.170	3.5
134.5336	8.03	-5.5	18360.650	1.5	92695.620	2.5	134.9056	24.02	-3.35	56992.200	3.0	131118.100	3.0
134.5336	8.03	-1.50	500037.800	1.5	574368.700	2.5	134.9084	28.01	-1.92	55299.650	4.5	129424.030	5.5
134.5341	28.01	-2.27	500037.800	1.5	574368.700	1.5	134.9117	14.03	-4.45	254127.080	2.5	328249.640	3.5
134.5416	28.01	-3.28	57420.160	2.5	131750.730	3.5	134.9123	15.02	-6.7	174106.200	5	248228.400	1.5
134.5435	26.02	-4.66	23796.180	1.5	98122.630	5	134.9125	12.02	-2.7	534923.600	3.0	609045.200	3.0
134.5553	24.01	-6.94	83358.880	2.0	157684.300	2.0	134.9131	12.02	-1.70	534923.600	3.0	609045.200	3.0
134.5571	26.03	-3.03	0.000	2.5	74318.860	2.5	134.9134	12.02	-1.69	534923.600	3.0	609045.200	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
135.0153	12.02	-1.22	474655.000	2.0	548720.700	1.0	135.3206	26.01	-6.44	13673.210	1.5	87571.800	2.5
135.0176	13.01	-1.34	59849.700	1.0	133914.100	2.0	135.3253	25.04	-3.56	183528.000	2.5	257424.000	1.5
135.0178	26.03	-3.00	128540.400	3.5	202604.700	3.5	135.3307	25.01	-1.36	32856.950	3.0	106750.000	2.0
135.0187	26.02	-4.67	125637.980	3.0	199701.820	3.0	135.3336	28.02	-3.86	63472.600	2.0	137364.100	1.0
135.0212	28.03	-2.27	112371.430	5.5	186433.850	1.5	135.3342	25.01	-1.47	32858.840	2.0	106750.000	2.0
135.0212	26.01	-6.61	13474.430	2.5	87536.900	3.5	135.3348	26.02	-3.19	84671.870	3.0	158562.700	4.0
135.0229	26.02	-3.65	63466.390	5.0	137527.920	4.0	135.3408	25.02	-4.95	144817.680	3.5	218705.250	2.5
135.0258	28.01	-1.87	56075.260	2.5	130135.190	1.5	135.3410	26.02	-3.89	84369.920	2.0	158257.370	1.0
135.0262	24.02	-3.74	25781.000	2.0	99840.700	3.0	135.3418	26.02	-3.41	73727.640	2.0	147614.650	2.0
135.0286	25.01	-3.34	14781.190	2.0	88839.600	1.0	135.3473	24.03	-.59	159360.000	3.5	233244.000	4.5
135.0293	26.02	-3.36	84671.870	3.0	158729.890	3.0	135.3511	28.02	-1.44	56308.200	1.0	130190.100	0.0
135.0302	26.02	-4.30	128371.530	0.0	202429.040	1.0	135.3545	28.01	-4.65	55417.830	3.5	129297.910	3.5
135.0321	28.01	-1.44	55417.830	3.5	129474.270	3.5	135.3551	25.01	-3.56	14959.840	0.0	88839.600	1.0
135.0428	26.02	-2.33	63494.000	3.0	137544.600	2.0	135.3564	26.02	-4.44	49576.900	1.0	123455.920	0.0
135.0438	26.02	-3.06	63494.560	2.0	137544.600	2.0	135.3585	23.02	-.90	15579.800	1.5	89457.670	2.5
135.0438	25.02	-3.72	144619.190	1.5	218669.260	1.5	135.3607	28.01	-1.70	55417.830	3.5	129294.510	2.5
135.0486	26.02	-3.27	84369.920	2.0	158417.310	2.0	135.3689	27.02	-4.85	57036.800	5.5	130909.000	1.5
135.0487	26.02	-4.24	126390.570	1.0	200437.940	2.0	135.3713	12.02	-1.43	535179.600	2.0	609050.500	2.0
135.0516	14.01	-1.07	42932.680	1.5	116978.440	1.5	135.3721	14.01	-.53	43107.970	2.5	116978.440	1.5
135.0589	29.01	-2.12	70841.300	3.0	144883.090	2.0	135.3764	13.03	-.91	685732.800	2.0	759600.900	1.0
135.0638	30.02	-3.05	144501.200	3.0	218540.300	2.0	135.3764	13.03	-.91	685732.800	2.0	759600.900	1.0
135.0656	14.01	-1.27	42824.350	5.5	116862.440	5.5	135.3791	28.01	-2.63	55417.830	3.5	129284.500	2.5
135.0658	27.02	-2.63	98545.600	3.5	172583.600	3.5	135.3796	23.02	-3.52	87218.920	3.5	161085.300	4.5
135.0658	27.02	-2.63	98545.600	3.5	172583.600	3.5	135.3806	12.02	-.28	535179.600	2.0	609045.400	3.0
135.0658	27.02	-3.08	98545.600	3.5	172583.600	3.5	135.3810	12.02	-4.54	535179.600	2.0	609045.400	3.0
135.0670	26.02	-3.15	83466.980	1.0	157684.300	2.0	135.3824	28.01	-1.56	56371.410	3.5	130236.260	2.5
135.0676	24.03	-.31	158536.000	1.5	232573.000	2.5	135.3849	12.02	-3.01	532971.200	3.0	606834.700	2.0
135.0731	27.02	-3.18	56373.800	2.5	130407.800	2.5	135.3849	14.02	-2.43	175230.010	0.0	249093.500	1.0
135.0732	26.02	-4.77	63494.000	3.0	137527.920	4.0	135.3856	27.02	-2.51	55729.200	3.5	129592.300	4.5
135.0751	25.02	-4.15	144672.380	2.5	218705.250	2.5	135.3922	12.02	-1.10	532971.200	3.0	606830.700	3.0
135.0822	26.02	-2.71	125672.830	2.0	199701.820	3.0	135.3935	24.02	-4.60	43286.400	4.0	117145.200	5.0
135.0864	24.02	-2.83	57422.100	4.0	131448.800	5.0	135.3948	26.02	-4.61	70728.750	4.0	144586.830	5.0
135.0868	28.02	-1.97	82826.900	4.0	156853.400	3.0	135.3984	29.02	-4.48	68963.600	2.5	142819.700	3.5
135.0972	30.02	-3.72	234384.000	3.0	308404.800	2.0	135.3990	26.01	-2.69	18360.650	1.5	92216.420	1.5
135.0986	26.04	-1.75	187162.000	3.0	261182.000	3.0	135.4025	28.01	-2.23	55417.830	3.5	129271.720	3.5
135.1021	27.02	-4.46	55729.200	3.5	129747.300	2.5	135.4055	9.02	-3.58	395268.130	1.5	469120.350	1.5
135.1123	30.02	-4.74	234384.000	3.0	308396.500	3.0	135.4071	9.02	-3.69	395268.130	1.5	469119.520	2.5
135.1249	28.02	-1.19	55952.000	2.0	129957.600	1.0	135.4090	25.01	-2.19	32856.950	3.0	106707.300	4.0
135.1260	25.01	-8.69	27583.300	4.0	101588.300	3.0	135.4102	26.01	-5.53	20340.360	5.5	94190.020	5.5
135.1260	24.03	-1.69	159360.000	3.5	233365.000	3.5	135.4169	24.03	-1.38	159872.000	4.5	233718.000	4.5
135.1266	27.02	-3.78	56794.800	1.5	130799.500	3.5	135.4178	26.02	-3.40	70725.010	3.0	144570.530	3.0
135.1278	24.03	-.46	158901.000	2.5	232905.000	3.5	135.4184	24.02	-3.15	57422.100	4.0	131267.300	4.0
135.1288	28.01	-2.28	23796.180	1.5	97799.660	1.5	135.4188	30.02	-.07	147498.600	1.0	221343.600	2.0
135.1317	28.02	-2.28	55952.000	2.0	129953.900	3.0	135.4247	26.02	-1.80	74728.750	4.0	144570.530	3.0
135.1319	28.01	-2.15	55417.830	3.5	129419.580	4.5	135.4265	14.02	-2.07	175263.100	1.0	249103.900	2.0
135.1327	26.02	-6.83	42896.900	3.0	116898.220	2.0	135.4288	6.00	-2.73	10192.630	2.0	84032.150	1.0
135.1333	18.01	-1.30	132630.650	1.5	206631.670	2.5	135.4316	25.04	-2.07	177862.000	3.5	251700.000	4.5
135.1350	25.01	-8.17	27588.230	3.0	101588.300	3.0	135.4378	29.01	-3.63	73101.870	1.0	146936.480	2.0
135.1365	25.01	-8.05	27589.030	2.0	101588.300	3.0	135.4437	27.02	-2.79	98545.600	3.5	172377.000	3.5
135.1383	28.01	-3.38	55299.650	4.5	129297.910	3.5	135.4454	26.01	-9.82	667.640	2.5	74498.150	1.5
135.1385	26.01	-9.72	18360.650	1.5	92358.800	1.5	135.4456	14.02	-2.55	175263.100	1.0	249093.500	1.0
135.1420	29.01	-2.44	73101.870	1.0	147098.100	2.0	135.4485	26.02	-3.44	73727.640	2.0	147556.450	1.0
135.1466	12.02	-3.96	532725.700	2.0	606719.400	0.0	135.4573	29.02	-1.29	123549.900	4.5	197373.900	3.5
135.1549	26.03	-3.69	127928.100	1.5	201917.300	3.5	135.4584	26.02	-4.17	128605.650	1.0	202429.040	1.0
135.1571	24.03	-2.48	158901.000	2.5	232889.000	3.5	135.4601	26.02	-3.53	84159.550	4.0	157982.000	3.0
135.1576	28.01	-6.11	13550.390	3.5	87538.090	3.5	135.4616	18.01	-2.33	132327.280	3.5	206148.940	3.5
135.1581	12.02	-2.51	532725.700	2.0	606713.100	1.0	135.4637	30.02	-3.57	234576.000	4.0	308396.500	3.0
135.1656	17.00	-.72	882.360	5.5	74865.667	5.5	135.4645	28.01	-4.11	57080.550	3.5	130900.650	2.5
135.1680	26.04	-1.10	186437.000	1.0	260419.000	2.0	135.4654	28.02	-1.26	83033.800	2.0	156853.400	3.0
135.1726	27.02	-3.41	98823.200	2.5	172802.700	2.5	135.4673	26.02	-2.28	93388.750	4.0	167207.300	4.0
135.1789	26.02	-3.78	49576.900	1.0	123552.950	1.0	135.4692	23.02	-3.78	110181.470	2.5	183999.000	3.5
135.1833	29.01	-1.85	70841.300	3.0	144814.930	3.0	135.4738	11.05	-1.51	872577.000	1.0	946392.000	1.0
135.1862	28.01	-1.29	55299.650	4.5	129271.720	3.5	135.4741	26.02	-3.02	93392.450	3.0	167207.300	4.0
135.1909	26.01	-6.55	18360.650	1.5	92330.100	2.5	135.4777	24.02	-2.85	43286.400	4.0	117099.300	4.0
135.1921	9.03	-5.60	225.200	1.0	74194.000	2.0	135.4797	28.01	-2.65	56424.490	1.5	130236.260	2.5
135.2013	13.03	-.87	688313.300	2.0	762277.100	3.0	135.4801	9.02	-2.06	344436.960	5.5	418248.560	1.5
135.2013	13.03	-.87	688313.300	2.0	762277.100	3.0	135.4803	25.02	-2.75	71831.980	2.5	145643.450	2.5
135.2046	26.01	-7.25	13673.210	1.5	87635.200	3.5	135.4830	27.02	-3.89	56373.800	2.5	130183.800	3.5
135.2068	28.02	-1.31	55952.000	2.0	129912.800	2.0	135.4860	26.01	-5.11	20340.360	5.5	94148.710	4.5
135.2115	29.02	-1.53	123440.200	2.5	197398.400	2.5	135.4872	29.02	-.72	122637.200	5.5	196444.900	1.5
135.2119	28.01	-4.60	51045.460	4.5	125003.440	5.5	135.4915	18.01	-.79	132327.280	3.5	206132.660	4.5
135.2135	26.02	-3.48	122944.150	4.0	196901.270	5.0	135.4922	24.02	-3.72	20994.600	5.0	54799.600	5.0
135.2238	28.01	-1.81	57080.550	3.5	131032.010	2.5	135.4922	15.02	-.97	117834.500	5.5	191639.500	1.5
135.2241	27.02	-4.57	99182.200	5.5	173133.500	1.5	135.4936	12.02	-.86	532971.200	3.0	606775.400	4.0
135.2289	26.02	-7.39	40999.870	2.0	114948.550	3.0	135.5028	25.03	-3.13	119961.500	3.0	193760.700	4.0
135.2296	24.02	-6.78	20851.300	4.0	94799.600	5.0	135.5038	23.02	-3.51	87218.920	3.5	161017.600	3.5
135.2460	26.01	-8.03	667.640	2.5	74606.970	2.5	135.5058	12.03	-2.43	604007.400	2.5	677805.000	1.5
135.24													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
135.5853	23.02	-5.63	11769.700	2.5	85524.000	2.5	135.8812	25.01	-4.35	36364.300	1.0	109958.000	0.0
135.5862	25.02	-4.83	144619.190	1.5	218373.000	1.5	135.8897	28.01	-1.96	93412.930	2.0	167002.000	2.0
135.5904	9.02	-2.42	344436.960	5.5	418188.480	5.5	135.8946	26.02	-6.28	14995.570	2.5	88582.010	1.5
135.5908	26.01	-9.16	0.000	4.5	73751.340	4.5	135.9003	29.01	-1.63	73359.120	2.0	146936.400	2.0
135.5965	12.02	-2.32	532971.200	3.0	606719.400	2.0	135.9015	25.02	-4.22	144817.680	3.5	218400.400	3.5
135.5998	25.01	-4.46	33147.390	5.0	106893.800	5.0	135.9032	9.03	-4.17	612.200	2.0	74194.000	2.0
135.6016	26.02	-3.83	84671.870	3.0	158417.310	2.0	135.9092	26.02	-5.82	42896.900	3.0	116475.440	3.0
135.6036	26.01	-8.39	862.630	1.5	74606.970	2.5	135.9120	23.01	-5.12	2808.760	3.0	76385.800	3.0
135.6055	26.02	-4.00	63466.390	5.0	137209.730	4.0	135.9240	26.02	-5.61	42896.900	3.0	116467.410	4.0
135.6077	28.03	-1.19	111755.520	2.5	185497.660	2.5	135.9275	6.00	-1.17	10192.630	2.0	83761.260	3.0
135.6149	25.01	-4.10	32787.600	4.0	106525.800	3.0	135.9360	26.02	-3.05	118442.920	3.0	192006.940	2.0
135.6182	12.03	-1.95	604666.600	1.5	678403.000	2.5	135.9375	23.03	-4.68	144273.100	2.0	217836.300	3.0
135.6201	28.01	-2.37	57080.550	3.5	130815.910	3.5	135.9403	25.02	-4.68	144619.190	1.5	218180.900	1.5
135.6215	26.02	-4.53	115289.910	5.0	189024.530	5.0	135.9436	25.01	-3.34	33147.390	5.0	106707.300	4.0
135.6229	9.02	-2.89	395385.660	2.5	469119.520	2.5	135.9439	6.00	-3.01	10192.630	2.0	83752.410	1.0
135.6281	25.01	-6.16	29869.110	2.0	103600.170	2.0	135.9460	13.03	-1.42	687456.800	1.0	761015.400	2.0
135.6294	26.01	-6.61	13904.870	5.5	87635.200	5.5	135.9460	13.03	-1.42	687456.800	1.0	761015.400	2.0
135.6320	28.01	-1.94	54262.630	3.5	127991.560	3.5	135.9473	25.02	-4.47	144817.680	3.5	218375.610	4.5
135.6331	26.01	-3.77	1872.600	4.5	75600.930	3.5	135.9477	23.02	-2.48	11966.300	3.5	85524.000	2.5
135.6336	25.02	-4.85	144672.380	2.5	218400.400	3.5	135.9490	26.04	-4.66	186437.000	1.0	259994.000	1.0
135.6383	25.03	-4.90	111710.400	2.0	185435.900	3.0	135.9500	26.01	-5.97	20516.980	2.5	94073.460	3.5
135.6430	26.02	-2.74	63486.780	4.0	137209.730	4.0	135.9531	6.00	-1.74	10192.630	2.0	83747.390	2.0
135.6432	27.01	-6.36	11321.500	2.0	85044.300	3.0	135.9601	30.02	-4.08	141327.000	4.0	214878.000	3.0
135.6470	28.01	-1.45	57080.550	3.5	130801.330	4.5	135.9610	26.02	-4.84	128605.650	1.0	20156.130	2.0
135.6484	25.01	-4.15	36274.290	2.0	109994.300	1.0	135.9614	26.02	-4.47	115474.250	6.0	189024.530	5.0
135.6486	26.01	-4.45	22637.190	4.5	96357.070	3.5	135.9643	29.02	-2.77	68963.600	2.5	142512.300	1.5
135.6515	30.02	-4.85	145966.600	3.0	219684.900	3.0	135.9680	26.01	-5.35	22810.330	3.5	96357.070	3.5
135.6528	23.03	-3.39	144273.100	2.0	217990.700	1.0	135.9681	25.02	-4.15	144959.740	4.5	218506.390	3.5
135.6563	26.02	-3.07	63494.000	3.0	137209.730	4.0	135.9712	24.03	-4.87	159360.000	3.5	232905.000	3.5
135.6652	25.01	-9.75	29889.310	3.0	103600.170	2.0	135.9789	23.02	-2.73	87544.460	4.5	161085.300	4.5
135.6655	28.01	-1.72	56424.490	1.5	130135.190	1.5	135.9799	30.02	-5.2	144501.200	3.0	218041.500	4.0
135.6717	26.02	-4.10	73849.100	1.0	147556.450	1.0	135.9817	30.02	-2.92	144501.200	3.0	218040.500	3.0
135.6836	28.01	-3.97	53037.930	2.5	126738.820	1.5	135.9839	29.02	-4.44	120577.500	2.5	194115.600	3.5
135.6874	23.01	-5.74	2687.010	2.0	76385.800	3.0	135.9843	30.02	-4.11	234866.900	1.0	308404.800	2.0
135.6884	26.02	-2.89	92523.910	5.0	166222.200	4.0	135.9854	25.01	-2.45	32836.400	1.0	106373.700	2.0
135.6887	26.02	-3.83	76956.790	3.0	150654.900	3.0	135.9893	25.03	-1.27	119445.500	2.0	192980.700	1.0
135.6907	26.01	-6.71	13904.870	5.5	87601.900	1.5	135.9926	23.01	-5.60	2687.010	2.0	76220.400	2.0
135.6919	26.02	-2.89	93388.750	4.0	167085.120	3.0	135.9930	29.01	-2.34	73353.120	2.0	146886.310	1.0
135.6926	24.02	-4.56	57422.100	4.0	131118.100	3.0	135.9997	27.02	-3.38	73286.000	4.5	146815.600	3.5
135.6944	26.02	-3.07	49148.000	0.0	122843.030	1.0	136.0008	24.03	-1.60	184868.000	3.5	258397.000	4.5
135.6950	26.02	-2.76	93512.640	4.0	167207.300	4.0	136.0008	24.03	-2.46	159360.000	3.5	232889.000	3.5
135.6968	12.03	-3.68	603143.300	3.5	676837.000	2.5	136.0009	20.02	-1.92	203851.950	1.0	277380.860	2.0
135.6987	26.02	-1.94	93392.450	3.0	167085.120	3.0	136.0111	24.02	-4.21	20851.300	4.0	94374.700	4.0
135.7045	29.02	-5.50	121863.700	1.5	195553.200	2.5	136.0128	26.02	-5.76	42896.900	3.0	116419.390	2.0
135.7059	23.02	-2.76	12187.000	4.5	85875.740	3.5	136.0135	28.01	-2.27	57420.160	2.5	130942.300	1.5
135.7064	28.03	-1.20	110402.850	4.5	184091.320	3.5	136.0153	28.01	-8.59	977.030	5.5	74498.150	1.5
135.7134	28.01	-1.45	57080.550	3.5	130765.260	3.5	136.0164	10.01	-2.56	219130.780	2.5	292651.320	1.5
135.7134	6.00	-1.60	10192.630	2.0	83877.310	1.0	136.0233	30.02	-3.69	237642.700	3.0	311159.500	2.0
135.7139	28.02	-3.06	61339.200	4.0	135023.600	3.0	136.0234	25.01	-3.80	32856.950	3.0	106373.700	2.0
135.7163	25.01	-4.82	0.000	3.0	73683.110	4.0	136.0269	25.01	-2.48	32858.840	2.0	106373.700	2.0
135.7165	26.04	-1.00	186736.000	2.0	260419.000	2.0	136.0317	26.02	-4.91	50184.900	2.0	123697.180	2.0
135.7203	25.01	-9.04	29919.220	2.0	103600.170	2.0	136.0387	25.02	-4.56	144672.380	2.5	218180.900	1.5
135.7209	24.02	-2.14	43286.400	4.0	116967.000	4.0	136.0448	24.02	-1.74	100421.400	5.0	173926.600	6.0
135.7276	28.01	-1.92	57080.550	3.5	130757.510	4.5	136.0499	29.01	-2.63	73595.640	1.0	147098.100	0.0
135.7355	24.02	-6.02	20702.000	3.0	94374.700	4.0	136.0674	24.03	-3.15	159872.000	4.5	233365.000	3.5
135.7368	24.03	-7.77	158901.000	2.5	232573.000	2.5	136.0689	28.02	-3.15	63472.600	2.0	136964.800	3.0
135.7371	28.01	-2.03	29070.930	1.5	102742.740	1.5	136.0719	25.02	-4.84	43573.160	4.5	117063.740	4.5
135.7411	25.01	-4.60	14325.860	4.0	87995.500	5.0	136.0724	25.02	-4.30	144817.680	3.5	218307.980	2.5
135.7426	25.01	-2.56	32856.950	3.0	106525.800	3.0	136.0724	28.02	-2.28	83033.800	2.0	156524.100	2.0
135.7427	28.02	-2.03	82172.900	3.0	155841.700	4.0	136.0735	18.01	-4.97	132630.650	1.5	206120.350	2.5
135.7445	18.01	-1.55	132481.140	2.5	206148.940	3.5	136.0763	28.02	-2.31	110371.100	4.0	183859.300	3.0
135.7461	25.01	-2.28	32858.840	2.0	106525.800	3.0	136.0811	24.01	-6.54	0.000	2.5	73485.600	3.5
135.7488	30.02	-2.47	145243.900	2.0	218909.400	1.0	136.0820	26.01	-4.49	2430.080	3.5	75915.210	2.5
135.7523	26.02	-3.51	92523.910	5.0	166187.500	6.0	136.0878	28.01	-4.74	32499.530	4.5	105981.500	4.5
135.7569	25.01	-1.84	32816.100	0.0	106479.200	1.0	136.0905	28.01	-2.44	57420.160	2.5	130900.650	2.5
135.7570	24.03	-3.75	104265.000	2.5	177926.000	3.5	136.0958	28.01	-2.02	23796.180	1.5	97273.830	2.5
135.7659	6.00	-3.51	10192.630	2.0	88488.830	3.0	136.1020	26.02	-3.32	50276.100	4.0	123750.390	3.0
135.7681	9.03	-1.89	589188.000	2.0	662843.000	3.0	136.1036	29.01	-2.29	73101.870	1.0	146575.300	2.0
135.7723	30.02	-4.36	237506.800	1.0	311159.500	2.0	136.1042	23.02	-4.30	87544.460	4.5	161017.600	3.5
135.7774	28.01	-2.43	57080.550	3.5	130730.530	2.5	136.1048	18.01	-1.80	132630.650	1.5	206103.450	1.5
135.7784	28.02	-1.46	56308.200	1.0	129957.600	1.0	136.1062	26.01	-6.16	18886.750	5.5	92358.800	1.5
135.7792	24.03	-1.79	159872.000	4.5	233521.000	4.5	136.1075	26.01	-7.23	20516.980	2.5	93988.300	2.5
135.7821	28.02	-7.76	82194.300	5.0	155841.700	4.0	136.1083	28.01	-2.53	56371.410	3.5	129842.330	2.5
135.7857	6.00	-4.25	10192.630	2.0	83838.080	2.0	136.1112	26.01	-5.10	22810.330	3.5	96279.650	2.5
135.7860	24.02	-4.50	43321.700	3.0	116967.000	4.0	136.1166	24.02	-1.85	100099.500	4.0	173565.900	5.0
135.7865	27.02	-5.84	37316.500	2.5	110961.500	1.5	136.1173	25.01	-7.37	9472.970	2.0	82939.000	1.0
135.7899	23.02	-1.41	15550.300	5.5	89193.470	1.5	136.1216	29.02	-2.83	63143.600	2.5	136607.300	2.5
135.7902	30.02	-4.47											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
136.2109	26.02	-3.13	92523.910	5.0	165939.470	5.0	136.4793	28.01	-1.65	57420.160	2.5	130691.350	1.5
136.2114	9.02	-2.97	395268.130	1.5	468683.430	2.5	136.4800	28.02	-3.44	82172.900	3.0	155443.700	2.0
136.2176	24.01	-9.03	0.000	2.5	73411.940	1.5	136.4825	24.01	-9.08	12303.980	3.5	85573.420	3.5
136.2182	23.01	-6.53	2808.760	3.0	76220.400	2.0	136.4830	26.02	-2.62	97041.380	3.0	170310.600	3.0
136.2203	27.02	-2.96	73540.200	3.5	146950.700	2.5	136.4859	26.01	-4.62	20805.830	4.5	94073.460	3.5
136.2221	20.02	-1.98	290934.300	0.0	364343.850	1.0	136.4887	26.02	-3.28	49576.900	1.0	122843.030	1.0
136.2278	25.01	-3.58	32858.840	2.0	106265.300	1.0	136.4914	25.01	-5.71	14593.820	3.0	87858.510	2.0
136.2315	28.01	-3.22	56075.260	2.5	129479.730	1.5	136.4958	25.01	-5.09	9472.970	2.0	82735.290	2.0
136.2361	26.02	-3.18	50295.200	3.0	123697.180	2.0	136.5007	26.02	-4.36	116419.390	2.0	189679.070	3.0
136.2416	28.01	-3.62	56075.260	2.5	129474.270	3.5	136.5014	22.02	-3.46	10536.400	0.0	83795.700	1.0
136.2416	24.03	-3.52	104637.000	3.5	178036.000	4.5	136.5039	26.04	-6.67	186736.000	2.0	259994.000	1.0
136.2454	27.02	-4.14	98545.600	3.5	171942.600	4.5	136.5048	28.01	-1.12	58493.210	2.5	131750.730	3.5
136.2460	5.01	0.04	0.000	0.0	73396.650	0.0	136.5057	26.04	-5.51	187162.000	3.0	260419.000	2.0
136.2467	26.02	-4.12	117521.910	4.0	190918.170	3.0	136.5106	25.01	-3.63	14325.860	4.0	87580.230	4.0
136.2473	25.01	-8.89	0.000	3.0	73395.970	2.0	136.5190	15.00	-4.70	0.000	1.5	73249.900	1.5
136.2477	28.01	-1.98	57420.160	2.5	130815.910	3.5	136.5203	25.02	-1.05	43602.500	3.5	116851.690	3.5
136.2488	25.01	-8.01	0.000	3.0	73395.120	3.0	136.5218	26.01	-7.36	23031.300	1.5	96279.650	2.5
136.2494	25.02	-4.49	144672.380	2.5	218067.190	2.5	136.5232	26.02	-1.61	113635.340	4.0	186882.980	3.0
136.2520	30.02	0.60	145966.600	3.0	219360.000	4.0	136.5236	25.01	-4.82	33278.390	3.0	106525.800	3.0
136.2523	26.02	-3.70	113605.370	3.0	186998.600	4.0	136.5268	24.02	-1.59	43286.400	4.0	116532.100	3.0
136.2528	27.01	-6.31	11651.310	2.0	85044.300	3.0	136.5319	26.01	-5.37	20830.520	2.5	94073.460	3.5
136.2547	26.02	-4.42	70694.030	5.0	144085.970	4.0	136.5348	24.02	-2.76	100421.400	5.0	173662.800	6.0
136.2551	25.01	-4.79	14325.860	4.0	87717.620	3.0	136.5361	28.02	-3.78	71383.970	2.0	144624.400	1.0
136.2553	26.02	-3.24	70725.010	3.0	144116.640	3.0	136.5382	25.01	-5.05	9472.970	2.0	82712.550	3.0
136.2594	29.01	-1.66	71493.680	2.0	144883.090	2.0	136.5400	26.02	-4.88	128917.510	2.0	202156.130	2.0
136.2621	11.05	-0.72	1077752.000	2.0	1151140.000	1.0	136.5424	27.02	-4.58	98290.300	4.5	171927.600	3.5
136.2691	26.01	-6.93	20805.830	4.5	94190.020	5.0	136.5469	14.03	-3.29	254127.080	2.5	327361.970	2.5
136.2767	24.02	-3.71	20994.600	5.0	94374.700	4.0	136.5469	14.03	-2.15	254127.080	2.5	327361.970	1.5
136.2832	26.02	-4.48	116419.390	2.0	189796.030	1.0	136.5506	14.03	-1.99	254129.030	3.5	327361.970	2.5
136.2890	27.02	-4.78	56373.800	2.5	129747.300	2.5	136.5544	12.01	-2.33	35669.310	5.0	108900.190	1.5
136.2918	24.03	-1.54	159872.000	4.5	233244.000	4.5	136.5549	14.03	-3.11	218266.860	5.0	291497.500	1.5
136.2942	27.02	-4.00	82920.700	3.5	156291.400	2.5	136.5579	25.03	-2.30	175436.000	3.0	248665.000	4.0
136.2954	14.02	-1.82	176487.190	1.0	249857.260	0.0	136.5598	24.02	-5.49	43304.100	2.0	116532.100	3.0
136.2991	26.02	-3.39	50184.900	2.0	123552.950	1.0	136.5671	27.02	-3.60	73726.600	2.5	146950.700	2.5
136.3019	26.01	-8.94	384.770	3.5	73751.340	4.5	136.5674	25.02	-3.77	71395.270	5.0	144619.190	1.5
136.3029	26.04	-1.18	187162.000	3.0	260528.000	4.0	136.5691	26.04	-0.25	186736.000	2.0	259959.000	3.0
136.3032	18.01	-0.91	132737.610	5.0	206103.450	1.5	136.5706	30.02	-4.46	147921.500	2.0	221143.700	3.0
136.3045	26.02	-3.47	116419.390	2.0	189784.520	2.0	136.5706	29.01	-4.30	73353.120	2.0	146575.300	2.0
136.3045	14.00	-2.21	6298.850	2.0	79664.000	1.0	136.5740	9.02	-2.45	395385.660	2.5	468606.050	3.5
136.3056	23.02	-1.30	15579.600	1.5	88944.380	2.5	136.5761	28.01	-1.80	56075.260	2.5	129294.510	2.5
136.3080	26.02	-2.24	113635.340	4.0	186998.600	4.0	136.5788	12.02	-1.48	475502.900	1.0	548720.700	1.0
136.3123	26.02	-3.58	70725.010	3.0	144085.970	4.0	136.5878	24.03	-3.34	159360.000	3.5	232573.000	2.5
136.3192	26.02	-2.95	70728.750	4.0	144085.970	4.0	136.5882	26.02	-4.19	69695.730	4.0	142908.480	5.0
136.3213	25.02	-4.90	144619.190	1.5	217975.300	2.5	136.5903	26.02	-3.02	116467.410	4.0	189679.070	3.0
136.3260	28.03	-0.34	112144.090	1.5	185497.660	2.5	136.5926	24.02	-3.40	43321.700	3.0	116532.100	3.0
136.3323	27.02	-4.84	37021.000	3.5	110371.200	2.5	136.5948	28.01	-5.00	56075.260	2.5	129284.500	2.5
136.3371	12.03	-2.31	604007.400	2.5	677355.000	1.5	136.5965	23.03	-2.86	147135.200	2.0	220343.500	1.0
136.3377	25.01	-5.80	14593.820	3.0	87941.080	4.0	136.5979	26.02	-2.76	113584.200	2.0	186791.780	2.0
136.3408	30.02	-0.27	144501.200	3.0	217846.800	2.0	136.6052	26.02	-3.97	116475.440	3.0	189679.070	3.0
136.3418	28.01	-2.15	57420.160	2.5	130765.260	3.5	136.6055	29.01	-4.08	73353.120	2.0	146556.600	3.0
136.3419	26.02	-4.36	117068.560	3.0	190413.570	4.0	136.6186	28.01	-2.82	56075.260	2.5	129271.720	3.5
136.3429	26.02	-3.05	49576.900	1.0	122921.370	1.0	136.6208	26.02	-2.68	92523.910	5.0	165719.200	4.0
136.3448	17.00	-1.04	882.360	5.0	74225.846	1.5	136.6268	22.02	-3.24	10603.600	1.0	83795.700	1.0
136.3459	26.01	-5.57	20805.830	4.5	94148.710	4.5	136.6292	26.02	-3.01	86847.110	2.0	160037.900	2.0
136.3497	29.01	-1.96	73595.640	1.0	146936.480	2.0	136.6292	25.03	-4.14	11170.400	2.0	184901.200	2.0
136.3507	26.01	-5.08	22939.350	2.5	96279.650	2.5	136.6312	26.02	-2.89	70694.030	5.0	143883.740	5.0
136.3511	28.02	-2.85	63472.600	2.0	136812.700	2.0	136.6337	25.02	-4.98	144619.190	1.5	217807.570	1.5
136.3525	29.02	-2.54	63143.600	2.5	136482.900	1.5	136.6374	26.02	-2.16	113605.370	3.0	186791.780	2.0
136.3540	28.01	-4.40	32499.530	4.5	105838.060	3.5	136.6419	27.02	-3.68	98545.600	3.5	171729.600	2.5
136.3548	26.02	-3.79	50412.300	2.0	123750.390	3.0	136.6440	25.02	-1.78	43668.840	2.5	116851.690	3.5
136.3591	26.02	-4.47	117068.560	3.0	190404.310	3.0	136.6464	28.02	-4.23	103306.100	3.0	176487.700	2.0
136.3609	18.01	-0.79	145668.800	1.5	219003.600	2.5	136.6481	13.03	-0.16	687834.700	2.0	761015.400	2.0
136.3616	28.01	-2.65	24788.200	1.5	98122.630	5.0	136.6481	13.03	-0.16	687834.700	2.0	761015.400	2.0
136.3624	24.03	-0.54	160313.000	2.5	233647.000	3.5	136.6533	24.02	-3.52	20851.300	4.0	94029.200	3.0
136.3626	25.02	-3.51	145643.450	2.5	218977.340	3.5	136.6537	28.01	-4.88	58493.210	2.5	131670.870	2.5
136.3641	27.02	-2.57	56373.800	2.5	129706.900	3.5	136.6615	25.02	-3.94	145643.450	2.5	218816.970	2.5
136.3643	18.01	-1.75	145668.800	1.5	219001.800	1.5	136.6664	26.01	-5.49	2430.080	3.5	75600.930	3.5
136.3704	26.01	-2.96	18886.750	5.0	92216.420	1.5	136.6673	25.03	-2.02	175813.400	4.0	248983.800	5.0
136.3714	26.02	-4.88	117068.560	3.0	190397.710	2.0	136.6686	30.02	-1.48	147498.600	1.0	220668.300	2.0
136.3717	26.04	-0.29	187725.000	4.0	261054.000	5.0	136.6742	28.02	-1.64	82277.000	1.0	155443.700	2.0
136.3732	23.02	-3.99	28746.800	2.5	102075.000	2.5	136.6804	26.02	-4.99	73727.640	2.0	146891.040	3.0
136.3750	24.02	-5.36	20702.000	3.0	94029.200	3.0	136.6846	23.01	-4.19	2687.010	2.0	75848.130	3.0
136.3778	29.01	-2.22	73101.870	1.0	146427.600	1.0	136.6909	26.01	-4.14	20830.520	2.5	93988.300	2.5
136.3848	26.02	-2.76	49576.900	1.0	122898.840	2.0	136.6912	25.03	-3.24	120603.100	4.0	193760.700	4.0
136.3855	26.02	-1.79	113677.010	5.0	186998.600	4.0	136.6947	28.01	-1.87	57080.550	3.5	130236.260	2.5
136.3861	29.01	-3.17	71493.680	2.0	144814.930	3.0	136.6961	26.02	-3.26	70728.750	4.0	143883.740	5.0
136.3866	10.01	-4.55	219130.780	2.5	292451.780	1.5	136.6966	29.02	-3.37	63886.300	1.5	137041.000	5.0
136.3891	28.01												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
136.7748	26.02	-3.52	128917.510	2.0	202030.380	3.0	137.0868	25.01	-5.18	9472.970	2.0	82419.480	3.0
136.7790	23.01	-3.89	2604.820	1.0	75715.450	1.0	137.0909	30.02	-4.28	238205.500	1.0	311149.800	1.0
136.7816	26.02	-3.61	93388.750	4.0	166498.000	3.0	137.0911	28.01	-3.65	23108.280	2.5	96052.480	2.5
136.7836	25.02	-3.53	71564.210	1.5	144672.380	2.5	137.0924	15.00	-5.29	0.000	1.5	72943.500	1.5
136.7855	26.02	-2.12	93392.450	3.0	166498.000	3.0	137.0933	26.04	-5.54	186437.000	1.0	259380.000	2.0
136.7895	11.05	-2.54	873287.000	2.0	946392.000	1.0	137.1019	26.01	-2.21	12251.550	6.5	94190.020	5.5
136.7936	28.01	-2.01	56371.410	3.5	129474.270	3.5	137.1057	25.01	-3.56	14781.190	2.0	87717.620	3.0
136.7954	29.01	-1.48	0.000	0.0	73101.870	1.0	137.1152	29.02	-2.55	124442.500	4.5	197373.900	3.5
136.7954	56.01	-6.56	0.000	0.0	73101.873	0.0	137.1240	13.01	-1.78	59849.700	1.0	132776.400	0.0
136.7970	24.02	-3.50	100099.500	4.0	73200.500	5.0	137.1244	28.01	-3.09	56371.410	3.5	129297.910	3.5
136.8043	30.02	-2.22	147571.200	1.0	220668.300	2.0	137.1290	8.04	-2.03	158798.000	0.0	231722.035	0.0
136.8077	25.01	-3.71	33278.390	3.0	106373.700	2.0	137.1308	28.01	-2.45	56371.410	3.5	129294.510	2.5
136.8089	26.01	-2.70	13673.210	1.5	86767.870	2.5	137.1309	24.03	-4.35	105113.000	4.5	178036.000	4.5
136.8144	26.01	-6.46	0.000	4.5	73091.700	4.5	137.1347	27.02	-3.46	98545.600	3.5	171466.600	2.5
136.8170	28.01	-1.62	58705.950	1.5	131796.260	2.5	137.1347	27.02	-3.46	98545.600	3.5	171466.600	2.5
136.8183	25.02	-1.69	43602.500	3.5	116692.140	2.5	137.1347	27.02	-3.46	98545.600	3.5	171466.600	2.5
136.8188	28.01	-3.68	32499.530	4.5	105588.890	4.5	137.1360	26.02	-3.58	113677.010	5.0	186597.300	6.0
136.8197	27.02	-4.33	73861.800	1.5	146950.700	2.5	137.1372	9.02	-4.30	418248.560	1.5	491168.250	2.5
136.8223	24.02	-1.70	43304.100	2.0	114391.600	2.0	137.1419	27.02	-3.28	98823.200	2.5	171740.400	1.5
136.8232	25.04	-1.92	177862.000	3.5	250949.000	3.5	137.1419	27.02	-3.28	98823.200	2.5	171740.400	1.5
136.8247	25.03	-2.03	176288.600	5.0	249374.800	6.0	137.1419	27.02	-3.28	98823.200	2.5	171740.400	1.5
136.8269	26.02	-2.56	93412.930	2.0	166498.000	3.0	137.1453	25.01	-4.48	30684.810	1.0	103600.170	2.0
136.8277	24.02	-4.93	65890.900	3.0	138975.500	3.0	137.1468	25.01	-5.80	9472.970	2.0	82387.530	3.0
136.8308	23.02	-2.88	16374.700	2.5	89457.670	2.5	137.1469	28.01	-2.81	58705.950	1.5	131620.450	1.5
136.8414	25.01	-5.26	14781.190	2.0	87858.510	2.0	137.1473	15.02	-2.08	175314.100	1.5	248228.400	1.5
136.8415	26.01	-4.84	2837.940	2.5	75915.210	2.5	137.1496	28.01	-3.67	56371.410	3.5	129284.500	2.5
136.8421	23.03	-1.60	144273.100	2.0	217350.000	3.0	137.1529	25.02	-1.87	43668.840	2.5	116580.170	1.5
136.8422	20.01	-1.07	13650.190	1.5	86727.060	2.5	137.1622	27.02	-2.82	98823.200	2.5	171729.600	2.5
136.8427	24.01	-9.45	12496.790	4.5	85573.420	3.5	137.1639	25.02	-1.35	43674.700	1.5	116580.170	1.5
136.8435	28.02	-2.67	61339.200	4.0	134415.400	4.0	137.1677	28.03	-2.23	111187.860	3.5	184091.320	3.5
136.8466	22.02	-2.21	10721.200	2.0	83795.700	1.0	137.1695	26.02	-4.62	115110.920	4.0	188013.400	4.0
136.8467	29.01	-3.68	73353.120	2.0	146427.600	1.0	137.1698	10.01	-4.07	219130.780	2.5	292033.150	2.5
136.8492	26.01	-2.67	13474.430	2.5	86547.550	2.5	137.1736	28.01	-2.07	56371.410	3.5	129271.720	3.5
136.8527	23.01	-3.48	2687.010	2.0	75758.290	2.0	137.1770	12.02	-4.48	536152.000	1.0	609050.250	2.0
136.8553	24.02	-1.17	43321.700	3.0	116391.600	2.0	137.1775	10.01	-4.24	219648.440	1.5	292546.700	1.5
136.8556	26.01	-2.06	13474.430	2.5	86544.140	1.5	137.1780	27.02	-4.78	99043.500	1.5	171941.500	1.5
136.8571	14.03	-3.00	218428.670	1.5	291497.600	2.5	137.1783	26.02	-3.42	116898.220	2.0	189796.030	1.0
136.8573	14.03	-3.95	218428.670	1.5	291497.600	2.5	137.1836	29.01	-1.69	71919.930	3.0	144814.930	3.0
136.8671	24.02	-3.52	20702.000	3.0	93765.600	2.0	137.1970	25.03	-3.76	112013.300	3.0	184901.200	2.0
136.8690	29.01	-2.57	73353.120	2.0	146415.700	2.0	137.2000	26.02	-4.01	116898.220	2.0	189784.520	2.0
136.8736	25.03	-4.49	111506.000	1.0	184566.100	1.0	137.2019	15.02	-1.14	175314.100	1.5	248199.400	2.5
136.8781	29.02	-3.47	80551.500	2.5	153609.200	3.5	137.2036	15.00	-3.26	0.000	1.5	72884.400	2.5
136.8832	25.02	-3.46	71564.210	1.5	144619.190	1.5	137.2120	23.01	-3.10	2968.220	4.0	75848.130	3.0
136.8837	27.02	-5.88	37316.500	2.5	110371.200	2.5	137.2145	26.01	-4.48	20516.980	2.5	93395.600	2.5
136.8888	24.03	-1.03	160313.000	2.5	233365.000	3.5	137.2164	23.03	-1.55	153918.700	3.0	226796.300	2.5
136.8898	26.02	-2.81	49576.900	1.0	122628.340	2.0	137.2225	26.01	-2.37	13673.210	1.5	86547.550	2.5
136.8933	29.02	-3.41	122503.600	3.5	195553.200	2.5	137.2245	27.01	-4.77	13261.100	2.0	86134.400	1.0
136.8960	28.01	-3.42	56371.410	3.5	129419.580	4.5	137.2246	18.02	-4.05	209127.040	1.0	282000.260	1.0
136.9060	23.02	-1.95	16374.700	2.5	89417.500	3.5	137.2289	26.01	-1.02	13673.210	1.5	86544.140	1.5
136.9123	26.01	-8.08	23317.600	2.5	96357.070	3.5	137.2306	28.01	-3.10	56424.490	1.5	129294.510	2.5
136.9125	23.01	-3.34	2808.760	3.0	75848.130	3.0	137.2439	23.02	-1.50	16330.500	1.5	89193.470	1.5
136.9131	23.02	-3.79	28746.800	2.5	101785.810	1.5	137.2440	25.02	-3.89	145643.450	2.5	218506.390	3.5
136.9142	26.02	-3.46	63494.000	3.0	136532.450	2.0	137.2447	29.01	-2.76	73353.120	2.0	146215.700	1.0
136.9152	26.02	-2.64	63494.560	2.0	136532.450	2.0	137.2524	26.02	-4.88	116937.570	1.0	189796.030	1.0
136.9215	26.02	-2.45	57221.700	4.0	130256.270	5.0	137.2539	26.02	-1.46	117379.620	6.0	186597.300	6.0
136.9244	24.03	-3.08	159872.000	4.5	232905.000	3.5	137.2548	30.02	-2.84	142483.300	2.0	215340.500	2.0
136.9330	23.01	-5.42	2687.010	2.0	75715.450	1.0	137.2576	25.03	-4.19	117170.400	2.0	184566.100	1.0
136.9357	25.03	-3.28	112408.900	4.0	185435.900	3.0	137.2650	15.02	-1.14	175376.600	2.5	248228.400	1.5
136.9423	12.01	-1.94	35760.880	1.5	108784.330	1.5	137.2653	25.03	-2.91	175813.400	4.0	248665.000	4.0
136.9426	25.02	-1.25	43668.840	2.5	116692.140	2.5	137.2713	18.02	-3.23	209151.820	2.0	282000.260	1.0
136.9536	25.02	-1.92	43674.700	1.5	116692.140	2.5	137.2855	29.02	-2.53	124557.500	3.5	197398.400	2.5
136.9544	24.03	-3.44	159872.000	4.5	232889.000	3.5	137.2865	25.02	-2.97	71831.980	2.5	144672.380	2.5
136.9557	26.01	-5.64	0.000	4.5	73016.330	3.5	137.2866	28.02	-1.56	110212.400	5.0	183052.700	4.0
136.9559	20.01	-2.92	13710.880	2.5	86727.060	3.5	137.2968	23.03	-3.18	144273.100	2.0	217108.000	2.0
136.9559	20.01	-2.22	13710.880	2.5	86727.060	3.5	137.2987	18.02	-2.48	209166.350	0.0	282000.260	1.0
136.9585	28.02	-1.81	82826.900	4.0	155841.700	4.0	137.2996	26.02	-1.66	93388.750	4.0	166222.200	4.0
136.9630	26.02	-3.28	84671.870	3.0	157684.300	2.0	137.3024	29.01	-1.87	73595.640	1.0	146427.600	1.0
136.9636	26.01	-4.08	3117.480	1.5	76129.580	1.5	137.3065	26.02	-2.50	93392.450	3.0	166222.200	4.0
136.9648	28.01	-1.94	24788.200	1.5	97799.660	1.5	137.3068	12.03	-1.66	604007.400	2.5	676837.000	2.5
136.9698	23.02	-1.06	15550.300	1.5	88559.080	1.5	137.3116	17.00	-3.66	0.000	1.5	72827.038	1.5
136.9707	26.01	-1.79	13474.430	2.5	86482.750	3.5	137.3187	30.02	-3.88	238336.200	2.0	311159.500	2.0
136.9775	29.02	-4.41	123440.200	2.5	196444.900	1.5	137.3196	15.02	-2.25	175376.600	2.5	248199.400	2.5
136.9775	15.02	-2.29	175260.800	1.5	248265.500	1.5	137.3233	18.02	-2.98	209127.040	1.0	281947.880	0.0
136.9809	10.01	-3.24	219648.440	1.5	292651.320	1.5	137.3258	26.02	-1.23	113635.340	4.0	186454.890	5.0
136.9814	27.02	-4.11	98823.200	2.5	171825.800	1.5	137.3268	9.03	-2.09	590024.000	2.0	662843.000	3.0
136.9872	28.01	-4.62	32499.530	4.5	105499.050	3.5	137.3272	23.02	-2.33	16374.700	2.5	89193.470	1.5
136.9888	26.02	-3.85	115110.920	4.0	188109.580	3.0	137.3317	29.02	-4.44	124557.500	3.5	197373.900	3.5
136.9944	28.02	-3.77	61339										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
137.4125	26.02	-3.07	113605.370	3.0	186378.940	4.0	137.6842	28.02	-1.85	84604.800	1.0	157234.800	1.0
137.4144	30.02	-3.73	235623.900	3.0	308396.500	3.0	137.6858	8.01	-3.20	189068.370	1.5	261697.500	1.5
137.4151	15.02	-2.23	175427.200	3.5	248199.400	2.5	137.6902	26.02	-2.52	70694.030	5.0	143320.850	6.0
137.4155	24.03	-1.31	160946.000	3.5	233718.000	4.5	137.6915	28.02	-3.83	63472.600	2.0	136096.700	1.0
137.4170	8.02	-3.04	306584.800	2.0	379356.000	3.0	137.6956	26.02	-1.41	63494.000	3.0	136117.940	2.0
137.4320	28.01	-3.12	25036.380	2.5	97799.660	1.5	137.6959	18.01	-1.66	132327.280	3.5	204951.090	3.5
137.4325	26.01	-3.86	2837.940	2.5	75600.930	3.5	137.6967	26.02	-2.27	63494.560	2.0	136117.940	2.0
137.4348	28.01	-2.26	57080.550	3.5	129842.330	2.5	137.7030	29.01	-2.69	73595.640	1.0	146215.700	1.0
137.4382	26.02	-4.97	63425.170	6.0	136185.170	5.0	137.7066	9.02	-3.98	387523.470	3.5	460141.630	2.5
137.4389	26.01	-2.31	21430.390	5.5	94190.020	5.5	137.7069	15.00	-1.16	0.000	1.5	72618.000	.5
137.4395	27.02	-1.29	99182.200	.5	171941.500	.5	137.7085	26.02	-4.45	69695.730	4.0	142312.900	3.0
137.4406	26.01	-6.98	384.770	3.5	73143.480	3.5	137.7147	23.02	-1.30	16330.500	1.5	88944.380	2.5
137.4432	23.02	-1.39	88327.960	3.5	161085.300	4.5	137.7211	26.02	-3.63	117068.560	3.0	189679.070	3.0
137.4439	25.02	-4.38	145643.450	2.5	218400.400	3.5	137.7211	18.01	-3.35	132327.280	3.5	204937.800	4.5
137.4476	24.04	-4.30	167184.000	1.0	239939.000	1.0	137.7251	26.01	-2.94	21581.640	4.5	94190.020	5.5
137.4537	18.01	-2.01	132327.280	3.5	205079.070	2.5	137.7276	15.02	-1.42	141375.700	.5	213982.800	1.5
137.4615	10.01	-3.12	246192.450	2.5	318940.080	1.5	137.7285	23.02	-6.09	16810.900	4.5	89417.500	3.5
137.4631	30.02	-2.24	147921.500	2.0	220668.300	2.0	137.7306	26.02	-7.84	40999.870	2.0	113605.370	3.0
137.4691	26.02	-2.84	113635.340	4.0	186378.940	4.0	137.7341	26.02	-2.21	50295.200	3.0	122898.840	2.0
137.4703	27.02	-3.78	70934.100	2.5	143677.100	3.5	137.7355	30.02	-1.35	145243.900	2.0	217846.800	2.0
137.4729	15.00	-4.11	0.000	1.5	72741.600	1.5	137.7450	18.01	-1.17	132481.140	2.5	205079.070	2.5
137.4735	26.02	-1.58	63494.560	2.0	136235.840	1.0	137.7475	29.02	-3.39	63886.300	1.5	136482.900	1.5
137.4737	15.02	.54	175427.200	3.5	248168.400	3.5	137.7562	24.03	-1.13	160313.000	2.5	232905.000	3.5
137.4759	29.02	-1.06	67016.600	4.5	139756.600	2.5	137.7837	25.01	-4.04	37851.150	3.0	110428.700	4.0
137.4786	27.02	-2.16	98290.300	4.5	171028.900	5.5	137.7866	24.03	.07	160313.000	2.5	232889.000	3.5
137.4826	26.02	-2.39	50184.900	2.0	122921.370	1.0	137.7881	25.03	-4.49	175813.400	4.0	248388.600	3.0
137.4952	27.01	-5.00	13404.600	1.0	86134.400	1.0	137.7883	18.01	-1.88	132481.140	2.5	205056.220	1.5
137.5032	16.02	-3.55	11320.800	2.0	84046.400	2.0	137.7885	24.03	.07	160946.000	3.5	233521.000	4.5
137.5070	29.01	-2.67	66418.520	2.0	139142.100	2.0	137.7909	28.01	-1.81	55417.830	3.5	127991.560	3.5
137.5071	27.02	-2.83	98545.600	3.5	171269.100	4.5	137.7910	30.02	-4.44	145966.600	3.0	218540.300	2.0
137.5072	26.02	-4.36	115289.910	5.0	188013.400	4.0	137.7926	26.02	-4.98	157684.300	2.0	230257.150	2.0
137.5119	29.02	-3.88	63886.300	1.5	136607.300	2.5	137.7931	30.02	-.56	144501.200	3.0	217073.800	2.0
137.5136	25.01	-6.07	9472.970	2.0	82193.040	2.0	137.7937	24.01	-9.14	12032.720	1.5	84604.800	2.5
137.5152	26.02	-3.14	113584.200	2.0	186303.440	3.0	137.7938	15.00	-1.40	0.000	1.5	72572.200	1.5
137.5161	26.02	-2.71	63466.390	5.0	136185.170	5.0	137.7945	25.01	-1.32	14325.860	4.0	86897.700	3.0
137.5169	26.01	-4.30	21430.390	5.5	94148.710	4.5	137.7986	23.02	-1.15	16374.700	2.5	88944.380	2.5
137.5214	26.02	-4.18	117068.560	3.0	189784.520	2.0	137.8002	26.02	-1.51	76956.790	3.0	149525.630	2.0
137.5218	26.01	-1.83	13673.210	1.5	86388.980	.5	137.8019	26.02	-4.21	118350.240	4.0	190918.170	3.0
137.5227	26.02	-2.50	113739.620	6.0	186454.890	5.0	137.8028	28.01	-3.36	55299.650	4.5	127867.130	4.5
137.5232	28.01	-4.54	57420.160	2.5	130135.190	1.5	137.8036	26.01	-2.11	21581.640	4.5	94148.710	4.5
137.5252	26.02	-3.59	50184.900	2.0	122898.840	2.0	137.8073	26.01	-2.89	20830.520	2.5	93395.600	2.5
137.5263	26.02	-1.30	63486.780	4.0	136200.130	3.0	137.8095	26.02	-4.77	157684.300	2.0	230248.260	1.0
137.5272	18.01	-2.12	132481.140	2.5	205194.040	1.5	137.8105	18.01	-2.07	132630.650	1.5	205194.040	1.5
137.5335	26.02	-2.05	93512.640	4.0	166222.200	4.0	137.8117	29.01	-2.41	66418.520	2.0	138981.300	2.0
137.5361	8.02	-2.04	306584.800	2.0	379293.000	2.0	137.8204	27.02	-3.40	99182.200	.5	171740.400	1.5
137.5366	26.02	-3.72	116316.630	5.0	189024.530	5.0	137.8204	27.02	-3.40	99182.200	.5	171740.400	1.5
137.5385	26.01	-6.46	384.770	3.5	73091.700	4.5	137.8204	27.02	-.68	99182.200	.5	171740.400	1.5
137.5400	26.02	-2.39	63494.000	3.0	136200.130	3.0	137.8224	26.02	-2.33	116467.410	4.0	189024.530	5.0
137.5410	26.02	-4.36	63494.560	2.0	136200.130	3.0	137.8294	26.02	-2.16	50276.100	4.0	122829.550	3.0
137.5433	27.02	-4.13	98823.200	2.5	171527.600	3.5	137.8341	22.02	-3.89	8472.600	2.0	81023.600	2.0
137.5440	26.02	-2.77	116975.050	2.0	189679.070	3.0	137.8346	26.02	-3.77	93388.750	4.0	165939.470	5.0
137.5443	10.01	-4.33	219947.460	.5	292651.320	1.5	137.8358	28.02	-2.19	84604.800	1.0	157154.900	2.0
137.5476	13.03	-1.46	688313.300	2.0	761015.400	2.0	137.8365	18.01	-1.95	132630.650	1.5	205180.360	.5
137.5476	13.03	-1.46	688313.300	2.0	761015.400	2.0	137.8466	26.02	-4.05	116467.410	4.0	189011.840	4.0
137.5479	26.02	-2.20	113677.010	5.0	186378.940	4.0	137.8502	28.01	-6.92	14995.570	2.5	87538.090	3.5
137.5497	29.01	-1.91	66418.520	2.0	139119.500	3.0	137.8533	27.01	-5.81	13593.500	0.0	86134.400	1.0
137.5497	24.03	-4.04	160946.000	3.5	233647.000	3.5	137.8573	28.01	-2.56	58493.210	2.5	131032.010	2.5
137.5549	26.02	-4.98	69836.830	3.0	142535.070	2.0	137.8584	20.02	-1.78	204842.640	2.0	277380.860	2.0
137.5552	26.02	-1.92	113605.370	3.0	186303.440	3.0	137.8598	25.02	-4.34	145643.450	2.5	218180.900	1.5
137.5552	16.02	-4.46	11320.800	2.0	84018.900	1.0	137.8618	26.02	-2.57	116475.440	3.0	189011.840	4.0
137.5574	27.02	-2.10	99043.500	1.5	171740.400	1.5	137.8623	26.02	-3.26	116419.390	2.0	188955.560	3.0
137.5606	26.02	-4.50	116316.630	5.0	189011.840	4.0	137.8657	26.02	-3.86	50295.200	3.0	122829.550	3.0
137.5607	25.03	-3.01	176288.600	5.0	248983.800	5.0	137.8670	27.02	-.32	98545.600	3.5	171079.300	3.5
137.5669	28.01	-2.46	55299.650	4.5	127991.560	3.5	137.8670	27.02	-.32	98545.600	3.5	171079.300	3.5
137.5712	23.02	-3.26	88327.960	3.5	161017.600	3.5	137.8670	27.02	-.31	98545.600	3.5	171079.300	3.5
137.5730	23.02	-1.24	91710.430	3.5	164399.100	3.5	137.8711	12.02	-.74	475502.900	1.0	548034.400	0.0
137.5735	12.03	-.80	604666.600	1.5	677355.000	1.5	137.8717	27.01	-3.14	9812.700	4.0	82343.900	4.0
137.5747	23.02	-2.86	91710.430	3.5	164398.200	4.5	137.8751	24.01	-8.68	12148.000	2.5	84677.390	3.5
137.5807	26.02	-2.06	113584.200	2.0	186268.790	2.0	137.8834	10.01	-3.52	246415.040	1.5	318940.080	1.5
137.5821	28.01	-1.14	29070.930	1.5	101754.800	2.5	137.8850	26.02	-1.08	63466.390	5.0	135990.620	4.0
137.5859	26.01	-1.77	20805.830	4.5	93487.710	3.5	137.8893	26.02	-2.39	63486.780	4.0	136008.740	3.0
137.5864	28.02	-1.59	110371.100	4.0	183052.700	4.0	137.8898	12.02	-1.16	534197.700	1.0	606719.400	2.0
137.5890	26.01	-5.40	21308.080	1.5	93988.300	2.5	137.8901	26.01	-6.26	667.640	2.5	73189.160	1.5
137.5915	26.01	-3.33	20805.830	4.5	93484.750	4.5	137.8968	27.02	-3.91	83773.400	1.5	156291.400	2.5
137.5986	23.02	-4.29	16330.500	1.5	89005.640	5.5	137.9017	12.02	-1.55	534197.700	1.0	606713.100	1.0
137.6027	29.01	-2.52	67916.390	1.0	140589.400	0.0	137.9026	18.01	-.80	132481.140	2.5	204996.090	3.5
137.6059	30.02	-1.11	208041.300	2.0	280712.600	3.0	137.9030	26.02	-2.21	63494.000	3.0	136008.740	3.0
137.6063	10.01	-4.24	219130.780										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
138.0129	24.01	-9.75	12148.000	2.5	84604.990	2.5	138.3661	28.01	-2.24	58493.210	2.5	130765.260	3.5
138.0140	18.01	-2.23	132737.610	.5	205194.040	1.5	138.3721	26.02	-1.88	63466.390	5.0	135735.310	5.0
138.0234	27.01	-7.22	13261.100	2.0	85712.600	2.0	138.3755	26.01	-6.10	384.770	3.5	72651.910	3.5
138.0256	26.02	-3.02	77075.300	1.0	149525.630	2.0	138.3771	24.02	-1.49	43286.400	4.0	115552.700	3.0
138.0262	26.04	-4.21	186437.000	1.0	258887.000	1.0	138.3779	26.01	-5.01	384.770	3.5	72650.630	4.5
138.0276	28.01	-3.20	55417.830	3.5	127867.130	4.5	138.3846	25.01	-4.86	34910.430	4.0	107172.800	3.0
138.0278	28.01	-3.72	58493.210	2.5	130942.360	1.5	138.3856	26.01	-6.30	0.000	4.5	72261.830	5.5
138.0280	28.01	-3.69	58493.210	2.5	130942.300	1.5	138.3884	10.01	-2.50	246192.450	2.5	318452.820	1.5
138.0292	18.01	-1.62	132530.650	1.5	205079.070	2.5	138.3892	24.03	-2.14	160313.000	2.5	232573.000	2.5
138.0319	24.03	-1.13	160999.000	1.5	233446.000	2.5	138.3910	25.01	-8.44	9472.970	2.0	81732.000	1.0
138.0387	26.02	-3.34	50184.900	2.0	122628.340	2.0	138.3962	28.01	-3.43	23796.180	1.5	96052.480	2.5
138.0400	18.01	-1.95	132737.610	.5	205180.360	.5	138.3966	27.02	-3.38	98823.200	2.5	171079.300	3.5
138.0415	24.04	-2.12	167497.000	2.0	239939.000	1.0	138.3966	27.02	-3.38	98823.200	2.5	171079.300	3.5
138.0513	26.01	-3.12	21711.890	3.5	94148.710	4.5	138.3966	27.02	-3.39	98823.200	2.5	171079.300	3.5
138.0517	9.02	-4.28	387367.920	2.5	459804.550	1.5	138.4110	24.02	-3.84	43304.100	2.0	115552.700	3.0
138.0540	30.02	-7.79	147571.200	1.0	220006.600	1.0	138.4111	26.02	-2.67	63486.780	4.0	135735.310	5.0
138.0622	27.02	-2.26	56373.800	2.5	128804.900	1.5	138.4112	24.02	-3.06	43321.700	3.0	115570.200	4.0
138.0658	16.00	-6.24	9237.760	2.0	81667.000	1.0	138.4132	13.02	-7.29	53916.600	1.5	126164.050	.5
138.0696	16.00	-5.07	9237.760	2.0	81665.000	2.0	138.4133	25.01	-7.39	0.000	3.0	72247.380	3.0
138.0700	25.02	-9.97	39174.400	5.5	111601.450	5.5	138.4141	11.05	-1.29	996011.000	2.0	1068258.000	3.0
138.0704	26.02	-3.37	93512.640	4.0	165939.470	5.0	138.4181	27.02	.06	98290.300	4.5	170535.200	4.5
138.0728	18.01	-1.19	132630.650	1.5	205056.220	1.5	138.4181	27.02	.06	98290.300	4.5	170535.200	4.5
138.0740	25.02	-9.08	39176.500	6.5	111601.450	5.5	138.4181	27.02	.06	98290.300	4.5	170535.200	4.5
138.0747	16.00	-4.32	9237.760	2.0	81662.300	3.0	138.4238	25.02	-4.40	146066.070	1.5	218307.980	2.5
138.0763	25.02	-4.29	145643.450	2.5	218067.190	2.5	138.4324	28.01	-2.34	25036.380	2.5	97273.830	2.5
138.0773	26.02	-2.00	77102.430	2.0	149525.630	2.0	138.4326	28.01	-2.13	58493.210	2.5	130730.530	2.5
138.0775	27.02	-3.47	99043.500	1.5	171466.600	2.5	138.4328	29.02	-3.27	123549.900	4.5	195787.100	3.5
138.0775	27.02	-3.47	99043.500	1.5	171466.600	2.5	138.4343	28.01	-2.34	58705.950	1.5	130942.360	1.5
138.0775	27.02	-4.46	99043.500	1.5	171466.600	2.5	138.4345	28.01	-2.23	58705.950	1.5	130942.360	1.5
138.0783	28.01	-1.47	57080.550	3.5	129503.240	4.5	138.4347	26.02	-1.34	97041.380	3.0	169277.600	4.0
138.0793	28.01	-1.53	57420.160	2.5	129842.330	2.5	138.4374	26.01	-5.24	384.770	3.5	72619.610	2.5
138.0838	30.02	-1.97	145243.900	2.0	217663.700	1.0	138.4390	26.04	-2.11	187725.000	4.0	259959.000	3.0
138.0853	24.03	-2.46	160946.000	3.5	233365.000	3.5	138.4429	26.02	-4.64	118686.250	4.0	190918.170	3.0
138.0886	26.02	-2.61	50412.300	2.0	122829.550	3.0	138.4447	24.02	-2.60	43321.700	3.0	115552.700	3.0
138.0886	28.02	-2.47	62606.300	3.0	135023.600	3.0	138.4494	23.02	-1.05	16330.500	1.5	88559.080	1.5
138.0988	30.02	-1.75	145243.900	2.0	217655.800	3.0	138.4577	28.01	-3.27	23108.420	2.5	95332.530	2.5
138.1027	28.02	-4.00	83033.800	2.0	155443.700	2.0	138.4646	25.01	-4.43	37847.900	2.0	110068.500	2.0
138.1074	28.01	-3.09	58493.210	2.5	130900.650	2.5	138.4681	26.02	-3.83	63486.780	4.0	135705.570	3.0
138.1203	29.01	-4.49	66418.520	2.0	138819.170	3.0	138.4696	26.04	-1.55	187162.000	3.0	259380.000	2.0
138.1271	30.02	-4.19	235623.900	3.0	308021.000	2.0	138.4709	28.01	-2.62	57080.550	3.5	129297.910	3.5
138.1286	28.01	-4.51	1506.940	1.5	73903.250	.5	138.4709	25.01	-3.69	37851.150	3.0	110068.500	2.0
138.1304	22.02	-2.86	10721.200	2.0	83116.580	3.0	138.4734	26.02	-3.51	50412.300	2.0	122628.340	2.0
138.1317	30.02	-2.26	142483.300	2.0	214878.000	3.0	138.4764	26.02	-3.28	70694.030	5.0	142908.480	5.0
138.1335	28.01	-1.55	57080.550	3.5	129474.270	3.5	138.4773	26.02	-5.69	42896.900	3.0	115110.920	4.0
138.1425	25.04	-3.13	178560.000	4.5	250949.000	3.5	138.4774	28.01	-3.79	57080.550	3.5	129294.510	2.5
138.1457	26.01	-7.32	667.640	2.5	73054.970	2.5	138.4785	23.02	-2.60	27727.800	3.5	9941.200	3.5
138.1481	15.00	-4.50	0.000	1.5	72386.100	2.5	138.4809	26.01	-7.20	977.030	.5	73189.160	1.5
138.1507	10.01	-3.37	219648.440	1.5	292033.150	2.5	138.4820	26.02	-2.88	63494.000	3.0	135705.570	3.0
138.1549	24.02	-2.94	43286.400	4.0	115668.900	5.0	138.4830	26.02	-3.83	63494.560	2.0	135705.570	3.0
138.1571	16.00	-1.28	0.000	2.0	72381.378	1.0	138.4833	26.02	-4.36	157982.000	3.0	230192.860	3.0
138.1643	15.00	-1.67	0.000	1.5	72377.600	.5	138.4841	26.01	-6.89	977.030	.5	73187.460	.5
138.1666	25.03	-4.52	176288.600	5.0	248665.000	4.0	138.4846	26.02	-4.40	69836.830	3.0	142047.000	4.0
138.1685	28.01	-2.59	0.000	2.5	72375.420	1.5	138.4966	28.01	-3.17	57080.550	3.5	129284.500	2.5
138.1723	24.01	-8.57	12303.980	3.5	84677.390	3.5	138.5048	16.00	.35	9237.760	2.0	81437.400	1.0
138.1898	10.01	-4.80	219130.780	2.5	291495.040	2.5	138.5077	28.01	-2.59	58493.210	2.5	130691.350	1.5
138.1903	23.02	-4.99	85875.740	3.5	158239.700	2.5	138.5143	28.01	-3.13	58705.950	1.5	130900.650	2.5
138.1933	13.03	-1.01	688653.000	1.0	761015.400	2.0	138.5159	15.04	-1.13	304445.300	1.5	376639.200	.5
138.1933	13.03	-1.01	688653.000	1.0	761015.400	2.0	138.5189	26.01	-7.35	862.630	1.5	73054.970	2.5
138.1949	26.01	-2.07	21711.890	3.5	94073.460	3.5	138.5199	18.01	-4.55	132737.610	.5	204929.400	.5
138.2036	25.01	-4.26	37847.900	2.0	110204.900	3.0	138.5211	28.01	-1.77	57080.550	3.5	129271.720	3.5
138.2055	27.02	-1.98	55729.200	3.5	128085.200	2.5	138.5291	26.04	-2.89	187162.000	3.0	259349.000	4.0
138.2117	28.02	-4.88	61339.200	4.0	133692.000	5.0	138.5300	25.01	-5.88	9472.970	2.0	81659.500	3.0
138.2122	27.02	-3.30	83938.900	3.5	156291.400	2.5	138.5341	23.02	-2.02	16374.700	2.5	88559.080	1.5
138.2129	26.01	-7.72	0.000	4.5	72352.170	3.5	138.5373	25.01	-4.23	37811.570	1.0	109994.300	1.0
138.2146	26.02	-4.25	69695.730	4.0	142047.000	4.0	138.5414	24.01	-8.78	12496.790	4.5	84677.390	3.5
138.2195	26.01	-7.27	667.640	2.5	73016.330	3.5	138.5429	25.01	-2.03	14781.190	2.0	86961.000	1.0
138.2228	18.01	-1.01	132630.650	1.5	204977.590	2.5	138.5430	20.02	-1.95	204842.640	2.0	277022.400	3.0
138.2229	29.02	-2.22	123440.200	2.5	195787.100	3.5	138.5431	26.02	-2.62	70728.750	4.0	142908.480	5.0
138.2236	23.02	-3.12	92052.550	4.5	164399.100	3.5	138.5451	26.01	-2.28	20516.980	2.5	92695.620	2.5
138.2253	23.02	-1.13	92052.550	4.5	164398.200	4.5	138.5485	26.01	-4.23	2430.080	3.5	74606.970	2.5
138.2304	25.01	-1.60	14593.820	3.0	86936.800	2.0	138.5487	28.02	-3.12	71383.700	2.0	143560.500	2.0
138.2316	10.01	-3.06	246597.710	.5	318940.080	1.5	138.5497	26.01	-4.33	21812.040	1.5	93988.300	2.5
138.2362	25.01	-6.12	9472.970	2.0	81812.900	2.0	138.5519	16.00	-3.38	395.560	1.0	72570.680	0.0
138.2380	28.01	-3.03	57080.550	3.5	129419.580	4.5	138.5529	29.01	-3.75	66418.520	2.0	138593.100	1.0
138.2441	28.03	-4.45	111755.520	2.5	184091.320	3.5	138.5610	12.03	-1.19	604666.600	1.5	676837.000	2.5
138.2458	18.02	-2.92	209127.040	1.0	281461.970	2.0	138.5730	25.02	-4.75	145643.450	2.5	217807.570	1.5
138.2492	26.02	-2.28	50295.200	3.0	122628.340	2.0	138.5779	26.02	-4.30	70694.030	5.0	142855.590	4.0
138.2517	25.02	-4.84	145643.450	2.5	217975.300	2.5	138.5844	27.01	-3.				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
138.7215	26.01	-0.19	20340.360	5.5	92427.220	4.5	139.0567	27.02	-2.31	83789.300	.5	155702.400	1.5
138.7233	26.01	-0.98	20516.980	2.5	92602.940	3.5	139.0606	12.02	-2.29	534923.600	3.0	606834.700	2.0
138.7249	30.02	-0.91	147921.500	2.0	220006.600	1.0	139.0629	26.01	-8.18	20340.360	5.5	92250.270	6.5
138.7284	7.02	-0.38	245665.700	.5	317750.800	1.5	139.0683	12.02	-0.99	534923.600	3.0	606830.700	3.0
138.7284	23.01	-0.70	208.890	3.0	72292.200	4.0	139.0703	26.01	-3.64	21581.640	4.5	93487.710	3.5
138.7345	7.02	-1.12	245701.700	1.5	317781.800	2.5	139.0760	26.01	-3.69	21581.640	4.5	93484.750	4.5
138.7410	23.02	-1.70	27727.800	3.5	97804.570	2.5	139.0766	27.02	-2.09	83799.600	2.5	155702.400	1.5
138.7434	26.02	-0.77	118350.240	4.0	190425.720	5.0	139.0782	24.02	-2.45	25781.000	2.0	97683.000	3.0
138.7446	30.02	-0.48	145966.600	3.0	218041.500	4.0	139.0809	27.02	-1.99	57036.800	.5	128937.400	.5
138.7465	30.02	-2.27	145966.600	3.0	218040.500	3.0	139.0990	26.02	-4.20	63425.170	6.0	135316.420	5.0
138.7478	23.02	-2.60	88944.380	2.5	161017.600	3.5	139.1000	26.02	-3.80	73727.640	2.0	145618.390	2.0
138.7516	10.01	-2.29	219130.780	2.5	291202.030	3.5	139.1059	26.02	-3.43	115110.920	4.0	186998.600	4.0
138.7530	26.02	-1.99	50276.100	4.0	122346.610	3.0	139.1103	23.03	-0.70	153918.700	3.0	225804.100	2.0
138.7586	26.02	-0.31	63486.780	4.0	135554.410	4.0	139.1154	26.02	-4.75	86847.110	2.0	158729.890	3.0
138.7662	10.01	-1.89	246192.450	2.5	318256.130	2.5	139.1204	30.02	-0.42	145966.600	3.0	217846.800	2.0
138.7668	26.02	-0.48	118350.240	4.0	190413.570	4.0	139.1232	26.01	-4.95	1872.600	4.5	73751.340	4.5
138.7725	26.02	-0.84	63494.000	3.0	135554.410	4.0	139.1239	28.02	-4.29	63472.600	2.5	135351.000	2.0
138.7736	25.01	-1.92	14901.180	1.0	86961.000	1.0	139.1251	28.01	-3.30	57420.160	2.5	129297.910	3.5
138.7741	28.01	-1.40	57420.160	2.5	129479.730	1.5	139.1252	25.02	-3.52	68899.200	4.5	140776.880	5.5
138.7775	12.02	-1.11	534776.900	2.0	606834.700	2.0	139.1252	24.02	-2.59	43304.100	2.0	115181.800	2.0
138.7784	26.02	-0.11	116898.220	2.0	188955.560	3.0	139.1255	28.01	-4.04	68131.210	3.5	140008.760	3.5
138.7799	26.02	-0.59	76956.790	3.0	149013.360	4.0	139.1273	12.02	-0.40	474655.000	2.0	546531.600	1.5
138.7841	26.01	-0.38	21430.390	5.5	93484.750	4.5	139.1305	28.01	-2.31	68131.210	3.5	140006.170	4.5
138.7846	28.01	-1.64	57420.160	2.5	129474.270	3.5	139.1317	28.01	-2.96	57420.160	2.5	129294.510	2.5
138.7852	12.02	-2.27	534776.900	2.0	606830.700	3.0	139.1330	30.02	-2.72	142483.300	2.0	214357.000	1.0
138.7893	26.02	-0.70	42896.900	3.0	114948.550	3.0	139.1343	23.03	-1.97	146117.700	1.0	217990.700	1.0
138.7894	28.02	-1.29	61339.200	4.0	133390.800	3.0	139.1496	26.01	-2.95	20830.520	2.5	92695.620	2.5
138.7898	26.02	-0.02	50295.200	3.0	122346.610	3.0	139.1511	28.01	-4.35	57420.160	2.5	129284.500	2.5
138.7924	26.02	-0.97	114948.550	3.0	186998.600	4.0	139.1593	24.02	-1.74	43321.700	3.0	115181.800	2.0
138.7939	27.02	-2.02	56373.800	2.5	128423.100	1.5	139.1614	24.03	-1.16	161506.000	2.5	233365.000	3.5
138.7942	7.02	-1.08	245701.700	1.5	317750.800	1.5	139.1649	24.02	-2.96	56992.200	3.0	128849.400	4.0
138.7948	14.02	-1.64	142945.840	2.0	214994.650	1.0	139.1653	26.01	-5.67	667.640	2.5	72524.620	1.5
138.7979	14.02	-1.91	142945.840	2.0	214994.650	0.0	139.1683	25.01	-3.19	14593.820	3.0	86449.240	4.0
138.7994	14.02	-2.12	142945.840	2.0	214994.650	1.0	139.1689	10.01	-2.43	246597.710	.5	318452.820	1.5
138.8011	14.02	-1.29	142943.740	3.0	214989.270	2.0	139.1703	10.01	-3.21	219947.460	.5	291801.880	1.5
138.8052	14.02	-2.03	142945.840	2.0	214989.270	2.0	139.1714	26.01	-7.71	384.770	3.5	72238.630	2.5
138.8098	14.02	-3.21	142945.840	2.0	214989.270	2.0	139.1754	12.02	-2.71	534923.600	3.0	606775.400	4.0
138.8160	10.01	-2.90	246415.040	1.5	318452.820	1.5	139.1758	28.01	-1.95	57420.160	2.5	129271.720	3.5
138.8163	26.02	-0.71	129854.800	6.0	201892.440	5.0	139.1788	26.02	-1.19	63466.390	5.0	135316.420	5.0
138.8195	26.04	-1.13	195212.000	2.0	267248.000	3.0	139.1801	25.01	-6.22	9472.970	2.0	81322.330	1.0
138.8202	25.01	-2.40	14901.180	1.0	86936.800	2.0	139.1854	10.01	-2.61	219648.440	1.5	291495.040	2.5
138.8276	29.02	-0.48	121337.200	4.5	193369.000	4.5	139.1867	16.00	-6.04	9237.760	2.0	81083.730	1.0
138.8346	24.01	-0.70	19528.380	.5	91556.540	1.5	139.1905	16.00	-4.86	9237.760	2.0	81081.730	2.0
138.8413	26.02	-0.70	119982.260	1.0	192006.940	2.0	139.1920	26.02	-3.17	114948.550	3.0	186791.780	2.0
138.8415	28.01	-2.01	58705.950	1.5	130730.530	2.5	139.1947	26.01	-7.45	20516.980	2.5	92358.800	1.5
138.8454	16.00	.20	0.000	2.0	72022.545	2.0	139.1950	16.00	-4.12	9237.760	2.0	81079.420	3.0
138.8465	24.03	-0.23	162072.000	3.5	234094.000	4.5	139.1961	10.01	-2.24	246415.040	1.5	318256.130	2.5
138.8465	11.05	-0.76	873287.000	2.0	945309.000	3.0	139.1982	26.02	-2.16	77075.300	1.0	148915.300	1.0
138.8490	10.01	-0.51	219947.460	.5	291968.140	.5	139.1985	26.02	-4.36	158417.310	2.0	230257.150	2.0
138.8493	26.01	-2.36	21308.080	1.5	93328.600	1.5	139.2132	26.02	-4.59	128605.650	1.0	200437.940	2.0
138.8507	25.02	-0.22	146066.070	1.5	218085.880	.5	139.2141	28.02	-0.94	111220.900	3.0	183052.700	4.0
138.8569	29.02	-2.62	125381.800	2.5	197398.400	2.5	139.2145	26.01	-6.24	20340.360	5.5	92171.950	4.5
138.8682	25.01	-3.20	0.000	3.0	72010.750	4.0	139.2178	30.02	-2.97	145243.900	2.0	217073.800	2.0
138.8694	27.02	-2.22	56794.800	1.5	128804.900	1.5	139.2183	26.02	-2.04	63486.780	4.0	135316.420	5.0
138.8708	27.01	-0.71	0.000	4.0	72009.400	4.0	139.2245	26.01	-5.05	20340.360	5.5	92166.810	5.5
138.8767	13.03	-0.96	616646.700	2.0	688653.000	1.0	139.2387	28.02	-4.02	61339.200	4.0	133158.300	3.0
138.8794	28.01	-1.88	58705.950	1.5	130710.850	.5	139.2503	26.01	-9.42	20516.980	2.5	92330.100	2.5
138.8867	25.01	-2.28	14959.840	0.0	86961.000	1.0	139.2508	26.02	-1.92	77102.430	2.0	148915.300	1.0
138.8893	26.02	-0.72	158257.370	1.0	230257.150	2.0	139.2563	26.02	-1.82	70725.010	3.0	142535.070	2.0
138.9041	29.02	-1.24	125381.800	2.5	197373.900	3.5	139.2566	27.02	-2.62	98545.600	3.5	170355.500	2.5
138.9065	26.02	-0.49	158257.370	1.0	230248.260	1.0	139.2599	16.00	-0.38	573.190	0.0	72381.378	1.0
138.9082	26.04	-1.16	195942.000	3.0	267932.000	4.0	139.2628	18.01	-4.65	132327.280	.5	204133.980	2.5
138.9090	27.02	-0.47	98545.600	3.5	170535.200	4.5	139.2783	28.01	-3.47	32499.530	4.5	104298.230	4.5
138.9090	27.02	-0.47	98545.600	3.5	170535.200	4.5	139.2814	26.01	-0.24	20805.830	4.5	92602.940	3.5
138.9090	27.02	-0.47	98545.600	3.5	170535.200	4.5	139.2839	12.02	-2.22	534923.600	3.0	606719.400	2.0
138.9159	28.02	-1.62	61339.200	4.0	133325.200	4.0	139.2854	24.01	-3.23	19631.280	1.5	91426.310	2.5
138.9163	16.00	-0.50	395.560	1.0	72381.378	1.0	139.2952	24.02	-1.95	56992.200	3.0	128782.200	3.0
138.9171	28.01	-2.79	58705.950	1.5	130691.350	1.5	139.2959	25.02	-4.65	146391.300	.5	218180.900	1.5
138.9192	26.01	-0.40	667.640	2.5	72651.910	3.5	139.3048	26.02	-2.68	63494.000	3.0	135279.040	2.0
138.9242	25.02	-3.95	146391.300	.5	218373.000	1.5	139.3059	26.02	-2.12	63494.560	2.0	135279.040	2.0
138.9248	27.02	-2.72	98823.200	2.5	170804.600	1.5	139.3084	27.01	-5.08	13261.100	2.0	85044.300	3.0
138.9265	26.02	-0.45	116975.050	2.0	188955.560	3.0	139.3122	29.01	-2.52	73101.870	1.0	144883.090	2.0
138.9339	25.01	-3.27	14325.860	4.0	86302.550	3.0	139.3211	26.01	-9.24	20340.360	5.5	92116.980	4.5
138.9455	26.02	-0.70	118442.920	3.0	190413.570	4.0	139.3227	26.01	-4.11	21711.890	3.5	93487.710	3.5
138.9485	10.02	-0.44	319444.900	1.0	391414.020	2.0	139.3232	26.02	-4.63	158417.310	2.0	230192.860	3.0
138.9503	12.02	-0.37	534923.600	3.0	606891.800	4.0	139.3249	28.01	-4.97	32523.540	3.5	104298.230	4.5
138.9516	12.02	-1.72	534923.600	3.0	606891.800	3.0	139.3275	26.02	-4.13	63466.390	5.0	135239.740	4.0
138.9518	26.01	-7.31	384.770	3.5									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
139.3893	27.02	-2.42	56794.800	1.5	128536.300	.5	139.6821	26.02	-2.14	87901.870	3.0	159493.000	3.0
139.3911	13.03	-2.03	687456.800	1.0	759197.400	0.0	139.6872	27.02	-2.90	55729.200	3.5	127317.700	3.5
139.3911	13.03	-2.03	687456.800	1.0	759197.400	0.0	139.6884	26.02	-2.60	70725.010	3.0	142312.900	3.0
139.3933	26.02	-4.31	118686.250	4.0	190425.720	5.0	139.6915	14.02	-2.30	142945.840	2.0	214532.170	1.0
139.3995	25.02	-4.63	146391.300	.5	218127.590	.5	139.6957	26.02	-1.65	70728.750	4.0	142312.900	3.0
139.4002	25.01	-4.64	14325.860	4.0	86061.750	3.0	139.6957	25.02	-2.14	71564.210	1.5	143148.400	1.5
139.4003	11.01	-2.45	293224.120	1.0	364960.000	1.0	139.6962	14.02	-2.78	142948.250	1.0	214532.170	1.0
139.4023	26.02	-1.56	50184.900	2.0	121919.740	3.0	139.6969	26.01	-3.39	21812.040	1.5	93395.600	2.5
139.4083	25.02	-2.33	71395.270	.5	143127.000	.5	139.7008	25.01	-3.35	43370.370	3.0	114951.900	2.0
139.4091	9.02	-4.78	344436.960	.5	416168.300	1.5	139.7009	28.01	-3.74	32499.530	4.5	104081.040	4.5
139.4099	26.01	-4.55	1872.600	4.5	73603.530	5.5	139.7011	25.01	-6.38	9472.970	2.0	81054.350	2.0
139.4115	27.02	-2.15	56794.800	1.5	128524.900	2.5	139.7032	24.02	-2.51	25725.800	3.0	97306.100	2.0
139.4131	26.02	-2.16	116380.070	1.0	188109.320	0.0	139.7037	26.01	-7.84	384.770	3.5	71964.810	2.5
139.4144	28.02	-2.06	62606.300	3.0	134334.900	3.0	139.7044	26.02	-2.25	77075.300	1.0	148655.000	0.0
139.4169	26.02	-4.82	118686.250	4.0	190413.570	4.0	139.7065	25.01	-5.08	9472.970	2.0	81051.620	3.0
139.4248	26.02	-1.32	116419.390	2.0	188142.640	2.0	139.7136	24.03	.30	162072.000	3.5	233647.000	3.5
139.4260	26.02	-2.48	36494.560	2.0	135217.170	1.0	139.7155	24.03	-1.42	160999.000	1.5	232573.000	2.5
139.4271	26.02	-3.77	69747.400	0.0	141469.450	1.0	139.7165	25.01	-2.50	43370.370	3.0	114943.900	3.0
139.4327	25.01	-5.67	29869.110	2.0	101588.300	3.0	139.7186	26.01	-7.46	20516.980	2.5	92089.410	3.5
139.4338	28.02	-4.43	71841.900	1.0	143560.500	2.0	139.7214	26.01	-6.72	667.640	2.5	72238.630	2.5
139.4416	28.03	-4.73	110402.850	4.5	182117.480	3.5	139.7230	26.02	-3.62	86847.110	2.0	158417.310	2.0
139.4461	26.02	-2.48	116419.390	2.0	188131.700	1.0	139.7290	26.01	-6.05	862.630	1.5	72429.740	.5
139.4461	23.02	-2.97	27727.800	3.5	99440.100	2.5	139.7374	25.02	-2.30	71564.210	1.5	143127.000	.5
139.4478	27.02	-1.60	56373.800	2.5	128085.200	2.5	139.7386	26.02	-3.92	69836.830	3.0	141399.040	2.0
139.4530	25.01	-2.83	14593.820	3.0	86302.550	3.0	139.7393	25.01	-1.91	43370.370	3.0	114932.200	4.0
139.4531	26.02	-2.58	115289.910	5.0	186998.600	4.0	139.7401	23.03	-1.08	146429.300	2.0	217990.700	1.0
139.4640	27.01	-3.97	0.000	4.0	71703.100	5.0	139.7404	26.02	-4.35	69837.760	2.0	141399.040	2.0
139.4711	26.01	-2.55	20516.980	2.5	92216.420	1.5	139.7430	23.02	-3.06	89457.670	2.5	161017.600	3.5
139.4720	25.01	-7.76	29889.310	3.0	101588.300	3.0	139.7569	26.01	-8.85	22637.190	4.5	94190.020	5.5
139.4758	26.04	-1.90	186437.000	1.0	258134.300	2.0	139.7605	28.02	-3.37	63472.600	2.0	135023.600	3.0
139.4763	26.02	-1.10	116316.630	5.0	188013.400	4.0	139.7617	23.02	-1.06	16330.500	1.5	87880.850	2.5
139.4806	25.02	-4.05	146391.300	.5	218085.880	.5	139.7671	26.01	-7.61	977.030	.5	72524.620	1.5
139.4875	24.03	-2.81	110700.000	3.5	182391.000	4.5	139.7694	20.02	-1.04	279353.640	1.0	350900.040	2.0
139.4891	26.02	-1.61	116419.390	2.0	188109.580	3.0	139.7702	26.02	-1.17	116467.410	4.0	188013.400	4.0
139.4910	30.02	.19	145966.600	3.0	217655.800	3.0	139.7802	28.02	-1.53	85834.800	5.0	157375.700	.5
139.5000	23.03	.47	144273.100	2.0	215957.700	3.0	139.7823	12.02	-1.27	535179.600	2.0	606719.400	2.0
139.5001	26.01	-5.31	667.640	2.5	72352.170	3.5	139.7857	28.01	-2.27	29070.930	1.5	100609.010	2.5
139.5017	26.01	-4.22	21711.890	3.5	93395.600	2.5	139.7858	26.02	-2.09	118246.520	3.0	189784.520	2.0
139.5070	24.03	-4.11	161765.000	1.5	233446.000	2.5	139.7859	26.02	-1.91	116475.440	3.0	188013.400	4.0
139.5193	25.01	-5.87	9472.970	2.0	81147.650	2.0	139.7891	28.01	-3.45	23796.180	1.5	95332.530	2.5
139.5215	26.02	-1.33	50276.100	4.0	121949.620	5.0	139.7946	12.02	-2.24	535179.600	2.0	606713.100	1.0
139.5264	25.02	-3.04	68892.000	3.5	140563.030	3.5	139.7970	27.02	-2.26	98823.200	2.5	170355.500	2.5
139.5274	29.02	.07	121698.500	5.5	193369.000	4.5	139.8009	28.01	-1.90	58705.950	1.5	130236.260	2.5
139.5302	25.01	-8.04	29919.220	2.0	101588.300	3.0	139.8015	29.01	-4.42	7353.120	2.0	144863.090	2.0
139.5327	23.02	-2.83	89417.500	3.5	161085.300	4.5	139.8015	28.01	-4.35	8393.900	4.5	79923.880	4.5
139.5338	26.02	-2.72	116475.440	3.0	188142.640	2.0	139.8048	26.01	-4.76	20830.520	2.5	92358.800	1.5
139.5350	13.03	-1.80	616646.700	2.0	688313.300	2.0	139.8111	24.02	-1.82	25781.000	2.0	97306.100	2.0
139.5372	25.02	-3.08	68892.000	3.5	140557.460	4.5	139.8132	16.03	-5.33	0.000	.5	71524.000	1.5
139.5378	26.02	-2.86	50276.100	4.0	121941.290	4.0	139.8132	11.05	-4.40	996734.000	3.0	1068258.000	3.0
139.5404	25.02	-3.26	68899.200	4.5	140563.030	3.5	139.8152	26.04	-1.38	187162.000	3.0	258685.000	3.0
139.5415	26.02	-3.73	130256.270	5.0	201919.530	4.0	139.8184	25.01	-4.81	35004.430	3.0	106525.800	3.0
139.5440	26.01	-6.10	862.630	1.5	72524.620	1.5	139.8184	25.01	-2.76	14781.190	2.0	86302.550	3.0
139.5457	26.02	-4.10	90423.680	2.0	162084.800	2.0	139.8195	28.03	.65	110402.850	4.5	181923.610	5.5
139.5475	26.01	-4.22	2837.940	2.5	74498.150	1.5	139.8201	9.02	-4.71	395268.130	1.5	466788.600	2.5
139.5513	25.02	-2.72	68899.200	4.5	140557.460	4.5	139.8202	26.02	-4.90	128917.510	2.0	200437.940	2.0
139.5530	18.01	-4.59	147503.020	1.5	219160.400	2.5	139.8261	25.03	-2.28	137930.100	5.0	209447.500	4.0
139.5574	12.02	-1.94	535179.600	2.0	606834.700	2.0	139.8268	23.02	-6.33	16810.900	4.5	88327.960	3.5
139.5599	29.02	-1.38	125744.600	1.5	197398.400	2.5	139.8278	26.01	-2.74	21812.040	1.5	93328.600	1.5
139.5613	30.02	-3.74	233610.400	2.0	305263.500	2.0	139.8298	26.02	-4.94	118163.560	2.0	189679.070	3.0
139.5618	18.01	-4.56	132481.140	2.5	204133.980	2.5	139.8345	25.02	-2.35	71831.980	2.5	143345.070	3.5
139.5646	30.02	-4.43	145243.900	2.0	216895.300	1.0	139.8376	26.01	-1.49	22637.190	4.5	94148.710	4.5
139.5652	12.02	-4.73	535179.600	2.0	606830.700	3.0	139.8481	23.02	-1.46	16374.700	2.5	87880.850	2.5
139.5750	26.02	-1.45	50295.200	3.0	121941.290	4.0	139.8550	26.02	-2.25	117521.910	4.0	189024.530	5.0
139.5751	24.03	-1.36	162072.000	3.5	233718.000	4.5	139.8572	26.01	-8.50	667.640	2.5	72169.150	1.5
139.5759	25.02	-2.31	71564.210	1.5	143209.800	2.5	139.8590	18.01	-4.84	147503.020	1.5	219003.600	2.5
139.5792	27.02	-2.01	56373.800	2.5	128017.700	3.5	139.8610	26.01	-3.99	20830.520	2.5	92330.100	2.5
139.5797	26.02	-4.51	50276.100	4.0	121919.740	3.0	139.8611	28.01	-1.80	25036.380	2.5	96535.870	3.5
139.5826	26.02	-1.55	116467.410	4.0	188109.580	3.0	139.8611	27.02	-2.47	57036.800	.5	128536.300	.5
139.5830	28.01	-3.31	58493.210	2.5	130135.190	1.5	139.8615	29.01	-1.21	69704.800	4.0	141204.100	3.0
139.5864	30.02	-2.60	233610.400	2.0	305250.600	3.0	139.8625	18.01	-4.64	147503.020	1.5	219001.800	1.5
139.5898	26.02	-4.75	66464.640	3.0	138103.120	4.0	139.8685	28.01	-3.99	56371.410	3.5	127867.130	4.5
139.5943	26.02	-4.99	130256.270	5.0	201892.440	5.0	139.8686	26.01	-9.15	15844.710	4.5	87340.400	5.5
139.5950	27.01	-3.86	10708.100	3.0	82343.900	4.0	139.8798	26.02	-3.12	117521.910	4.0	189011.840	4.0
139.5982	26.02	-1.07	116475.440	3.0	188109.580	3.0	139.8807	26.01	-5.95	3117.480	1.5	74606.970	2.5
139.5989	28.03	-4.48	110402.850	4.5	182036.640	4.5	139.8808	26.02	-2.09	63486.780	4.0	134976.220	3.0
139.6007	24.02	-4.54	25725.800	3.0	97358.700	4.0	139.8949	26.02	-1.65	63494.000	3.0	134976.220	3.0
139.6015	26.02	-2.21	118163.560	2.0	189796.030	1.0	139.8960	26.02	-2.39	63494.560	2.0	134976.220	3.0
139.6030	26.02	-4.36	69837.760	2.0	141469.4								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
139.9989	28.01	-5.76	8393.900	4.5	79823.030	3.5	140.3137	27.02	-2.82	55729.200	3.5	126998.100	4.5
140.0025	24.02	-1.79	57422.100	4.0	128849.400	4.0	140.3154	26.02	-2.52	115110.920	4.0	186376.940	4.0
140.0027	25.01	-3.78	14781.190	2.0	86208.400	1.0	140.3199	23.02	-3.61	87880.850	2.5	159146.600	2.5
140.0305	26.04	.06	195212.000	2.0	266625.000	2.0	140.3213	25.02	-4.48	71831.980	2.5	143097.000	3.5
140.0329	24.02	-1.78	43304.100	2.0	114715.900	1.0	140.3218	26.02	-3.84	122346.610	3.0	193611.370	4.0
140.0348	30.02	-.82	147498.600	1.0	218909.600	1.0	140.3227	26.02	-4.43	122346.610	3.0	193610.920	3.0
140.0359	26.02	-3.94	86847.110	2.0	158257.370	1.0	140.3228	28.01	-3.56	24788.200	1.5	96052.480	2.5
140.0384	25.01	-3.69	14781.190	2.0	86190.180	2.0	140.3250	26.01	-1.47	22810.330	3.5	94073.460	3.5
140.0388	25.01	-5.36	14325.860	4.0	85734.620	3.0	140.3334	26.01	-6.62	20830.520	2.5	92089.410	3.5
140.0423	23.03	.19	146429.300	2.0	217836.300	3.0	140.3514	18.01	-3.17	132481.140	2.5	203730.860	1.5
140.0431	27.02	-4.39	72270.500	3.5	143677.100	3.5	140.3523	26.02	-4.74	49576.900	1.0	120826.170	2.0
140.0503	9.02	-1.30	395385.660	2.5	466788.600	2.5	140.3537	25.01	-3.50	14959.840	0.0	86208.400	1.0
140.0512	25.02	-2.84	68892.000	3.5	140294.440	3.5	140.3609	23.03	.35	146855.100	3.0	218100.000	4.0
140.0518	24.01	-3.05	20024.180	3.5	91426.310	2.5	140.3619	26.02	-2.82	116898.220	2.0	188142.640	2.0
140.0539	25.01	-2.87	43557.030	1.0	114958.100	0.0	140.3683	10.01	-1.84	219130.780	2.5	290371.950	2.5
140.0571	25.01	-2.52	43557.030	1.0	114958.100	0.0	140.3751	25.02	-4.83	110711.620	3.5	181949.340	2.5
140.0580	24.03	-2.10	161506.000	2.5	232905.000	3.5	140.3757	27.02	.33	98290.300	4.5	169527.700	4.5
140.0599	26.04	-2.26	186736.000	2.0	258134.000	2.0	140.3759	29.02	-1.48	68963.600	2.5	140200.900	1.5
140.0600	26.02	-4.87	113605.370	3.0	185003.350	2.0	140.3765	11.05	-1.30	996734.000	3.0	1067971.000	2.0
140.0652	25.01	-4.60	14593.820	3.0	85989.120	2.0	140.3782	26.02	-3.55	118442.920	3.0	189679.070	3.0
140.0654	25.02	-3.95	68899.200	4.5	140294.440	3.5	140.3783	26.01	-6.45	977.030	.5	72213.100	.5
140.0661	25.01	-2.63	43557.030	1.0	114951.900	2.0	140.3834	26.02	-1.18	116898.220	2.0	188131.700	1.0
140.0668	24.02	-7.14	25725.800	3.0	97120.300	3.0	140.3887	23.03	-.92	155565.500	1.0	226796.300	2.0
140.0754	25.01	-6.79	0.000	3.0	71390.140	3.0	140.3911	29.02	-1.57	124557.500	3.5	195787.100	3.5
140.0780	25.02	-4.03	68892.000	3.5	140280.800	4.5	140.3928	24.02	-2.10	25848.200	1.0	97076.900	1.0
140.0802	10.01	-4.21	246394.130	2.5	317781.790	1.5	140.3956	23.03	-2.66	151567.300	2.0	222794.600	2.0
140.0805	26.01	-7.22	21308.080	1.5	92695.620	2.5	140.3963	9.02	-4.18	387367.920	2.5	458594.860	2.5
140.0810	10.01	-3.50	246394.130	2.5	317781.790	1.5	140.3987	29.01	-2.96	67916.390	1.0	139142.100	2.0
140.0829	27.02	-2.18	57036.800	.5	128423.100	1.5	140.4007	27.02	.17	98545.600	3.5	169770.300	2.5
140.0834	9.02	-.77	395385.660	2.5	466771.720	3.5	140.4118	26.01	-3.07	1872.600	4.5	73091.700	4.5
140.0837	26.01	-3.75	20830.520	2.5	92216.420	1.5	140.4152	25.01	-2.61	14325.860	4.0	85543.230	5.0
140.0868	10.01	-3.58	246397.490	1.5	317781.790	1.5	140.4159	23.02	-3.23	86938.010	2.5	158155.000	1.5
140.0876	10.01	-4.56	246397.490	1.5	317781.790	2.5	140.4270	26.02	-3.34	116898.220	2.0	188109.580	3.0
140.0894	24.03	.18	161506.000	2.5	232889.400	3.5	140.4338	25.01	-4.53	14781.190	2.0	85989.120	2.0
140.0921	25.02	-1.86	68899.200	4.5	140280.800	4.5	140.4392	28.01	-3.93	66571.340	2.5	137776.550	3.5
140.0939	26.01	-4.47	3117.480	1.5	74498.150	1.5	140.4394	26.02	-4.46	116937.570	1.0	188142.640	2.0
140.0995	25.02	-1.84	71831.980	2.5	143209.800	2.5	140.4437	15.00	-7.49	0.000	1.5	71202.900	1.5
140.1026	26.01	-5.37	7955.240	3.5	79331.490	3.5	140.4441	28.02	-3.08	75123.800	5.0	146326.500	5.0
140.1031	26.01	-5.77	862.630	1.5	72238.630	2.5	140.4581	24.02	-6.01	25725.800	3.0	96921.400	2.0
140.1040	26.01	-7.24	667.640	2.5	72043.210	1.5	140.4605	23.02	-4.70	28746.800	2.5	99941.200	3.5
140.1070	24.03	-1.23	162072.000	3.5	233446.000	2.5	140.4610	26.02	-1.91	116937.570	1.0	188131.700	1.0
140.1123	24.02	-4.77	25725.800	3.0	97097.100	4.0	140.4642	26.02	-3.24	115110.920	4.0	186303.440	3.0
140.1163	25.01	-3.86	35004.430	3.0	106373.700	2.0	140.4650	26.01	-6.66	977.030	.5	72169.150	1.5
140.1196	23.03	-2.23	151427.000	1.0	222794.600	2.0	140.4652	11.02	-2.25	373633.000	1.5	444825.000	2.5
140.1200	28.02	-4.44	71067.000	3.0	142434.400	2.0	140.4725	24.01	-4.93	19798.010	2.5	90986.310	3.5
140.1225	26.01	-6.65	20805.830	4.5	92171.950	4.5	140.4731	13.03	-.25	616646.700	2.0	687834.700	2.0
140.1326	26.01	-6.51	20805.830	4.5	92166.810	5.5	140.4878	26.01	-7.89	862.630	1.5	72043.210	1.5
140.1343	24.02	-2.91	57422.100	4.0	128782.200	3.0	140.4878	18.01	-4.99	132737.610	.5	203918.150	1.5
140.1369	25.01	-5.07	14593.820	3.0	85952.600	3.0	140.4889	16.03	-4.24	0.000	.5	71180.000	.5
140.1380	23.02	-3.39	15579.800	1.5	86938.010	2.5	140.4929	26.01	-4.94	22810.330	3.5	93986.300	2.5
140.1446	26.02	-2.73	114948.550	3.0	186303.440	3.0	140.4997	18.01	-3.91	132327.280	3.5	203501.800	2.5
140.1483	26.02	-1.56	70694.030	5.0	142047.000	4.0	140.5031	27.02	.05	98823.200	2.5	169996.000	1.5
140.1532	26.01	-7.12	862.630	1.5	72213.100	.5	140.5047	24.03	-1.97	162072.000	3.5	233244.000	4.5
140.1559	28.01	-2.98	58493.210	2.5	129842.330	2.5	140.5052	26.02	-1.51	116937.570	1.0	188109.320	0.0
140.1584	25.01	-4.69	14325.860	4.0	85673.720	4.0	140.5059	25.01	-4.29	14781.190	2.0	85952.600	3.0
140.1648	29.02	-.01	124442.500	4.5	195787.100	3.5	140.5128	15.00	-7.07	0.000	1.5	71167.900	2.5
140.1660	26.02	-2.50	115110.920	4.0	186454.890	5.0	140.5134	26.02	-2.82	116975.050	2.0	188142.640	2.0
140.1707	26.02	-2.67	118442.920	3.0	189784.520	2.0	140.5155	23.02	-2.89	15550.300	.5	86716.840	1.5
140.1752	24.02	-4.72	25781.000	2.0	97120.300	3.0	140.5162	26.02	-3.27	69836.830	3.0	141002.990	4.0
140.1770	26.01	-.98	22810.330	3.5	94148.710	4.5	140.5176	25.01	-2.91	14593.820	3.0	85759.300	4.0
140.1774	30.02	-.35	147571.200	1.0	218909.600	1.0	140.5177	12.02	-.66	474655.000	2.0	545820.400	2.0
140.1782	28.01	-4.60	68154.310	1.5	139492.100	2.5	140.5186	26.02	-2.22	115289.910	5.0	186454.890	5.0
140.1797	24.03	-.02	162310.000	2.5	233647.000	3.5	140.5227	27.02	-2.46	55729.200	3.5	126892.100	3.5
140.1802	9.02	-1.36	395385.660	2.5	466772.420	2.5	140.5250	25.02	-1.47	72183.330	3.5	143935.070	3.5
140.1937	26.01	-3.60	7955.240	3.5	79285.100	2.5	140.5303	9.02	-2.42	395385.660	2.5	466544.700	1.5
140.1958	26.02	-2.56	118350.240	4.0	189679.070	3.0	140.5350	26.02	-3.33	116975.050	2.0	188131.700	1.0
140.2069	25.01	-9.13	0.000	3.0	71323.150	2.0	140.5375	10.01	-2.49	219648.440	1.5	290803.820	.5
140.2080	9.02	-2.98	395385.660	2.5	466708.250	1.5	140.5398	28.02	-.78	111898.500	4.0	183052.700	4.0
140.2092	26.02	-3.98	70725.010	3.0	142047.000	3.0	140.5458	27.02	-.22	99043.500	1.5	170194.700	.5
140.2100	27.02	-3.29	55729.200	3.5	127050.800	4.5	140.5537	23.02	-3.85	85524.000	2.5	156671.200	2.5
140.2106	26.01	-4.73	2430.080	3.5	73751.340	4.5	140.5580	10.03	-2.57	576915.000	1.5	648060.000	1.5
140.2127	26.02	-3.24	114948.550	3.0	186268.790	2.0	140.5605	26.01	-1.81	1872.600	4.5	73016.330	3.5
140.2166	26.02	-2.53	70728.750	4.0	142047.000	4.0	140.5645	27.02	-3.16	55729.200	3.5	126870.900	2.5
140.2202	25.02	-2.15	71831.980	2.5	143148.400	1.5	140.5663	25.01	-5.83	14593.820	3.0	85734.620	3.0
140.2204	26.02	-3.45	113635.340	4.0	184951.820	3.0	140.5671	24.02	-4.49	25781.000	2.0	96921.400	2.0
140.2228	25.02	-3.91	68892.000	3.5	140207.090	2.5	140.5737	23.02	-3.13	15579.800	1.5	86716.840	1.5
140.2289	27.02	-.10	99043.500	1.5	170355.500	2.5	140.5738	25.04	-2.64	176937.000	1.5	248074.000	2.5
140.2305	26.01	-4.78	20805.830	4.5	92116.980	4.5	140.5750	28.01					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
140.7000	24.02	-4.69	25848.200	1.0	96921.400	2.0	140.9899	14.01	-2.08	55309.610	1.5	126236.700	1.5
140.7036	9.02	-3.40	387523.470	3.5	458594.860	2.5	140.9934	24.02	-4.26	25848.200	1.0	96773.500	1.0
140.7093	24.02	-2.19	43286.400	4.0	114354.900	4.0	140.9960	28.02	-1.26	112935.300	3.0	183859.300	3.0
140.7115	29.02	-2.11	67016.600	3.5	138084.000	2.5	140.9982	9.02	-2.31	395268.130	1.5	466191.030	2.5
140.7123	24.03	-1.47	161506.000	2.5	232573.000	2.5	141.0006	23.03	-1.09	146429.300	2.0	217350.000	1.0
140.7139	26.01	-6.40	977.030	.5	72043.210	1.5	141.0064	26.01	-3.87	22409.820	.5	93328.600	.5
140.7164	29.01	-1.13	67916.390	1.0	138981.300	2.0	141.0096	9.02	-1.07	395385.660	2.5	466302.800	3.5
140.7197	26.02	-4.93	66464.640	3.0	137527.920	4.0	141.0106	26.02	-2.66	118867.870	1.0	189784.520	2.0
140.7200	29.02	-7.71	125381.800	2.5	196444.900	1.5	141.0113	9.02	-2.51	395385.660	2.5	466301.960	2.5
140.7204	26.02	-4.57	118721.600	2.0	189784.520	2.0	141.0134	26.01	-2.60	12151.550	6.5	92166.810	5.5
140.7218	26.02	-3.75	63486.780	4.0	134549.000	3.0	141.0165	24.01	-4.46	20512.620	2.5	91426.310	2.5
140.7279	27.01	-3.51	950.300	3.0	72009.400	4.0	141.0165	25.02	-4.29	72183.330	3.5	143097.000	3.5
140.7304	28.01	-3.54	24835.930	.5	95893.760	1.5	141.0176	26.02	-4.70	69837.760	2.0	140750.980	2.0
140.7306	23.02	-3.60	28746.800	2.5	99804.570	2.5	141.0213	14.01	-1.17	55325.440	2.5	126236.700	1.5
140.7360	26.02	-4.49	63494.000	3.0	134549.000	3.0	141.0218	28.01	-1.92	57080.550	3.5	127991.560	3.5
140.7360	24.03	-2.72	162310.000	2.5	233365.000	3.5	141.0248	9.02	-2.63	395385.660	2.5	466295.150	1.5
140.7364	26.02	-3.18	63494.560	2.0	134549.380	1.0	141.0271	26.01	-2.18	12308.080	1.5	92216.420	1.5
140.7412	25.02	-1.98	68892.000	3.5	139944.400	3.5	141.0279	24.01	-3.71	20518.330	3.5	91426.310	2.5
140.7428	23.03	-2.29	155565.500	1.0	226617.100	1.0	141.0417	24.03	-4.34	104265.000	2.5	175166.000	3.5
140.7445	26.01	-6.25	21308.080	1.5	92358.800	1.5	141.0436	26.02	-3.02	66522.950	2.0	137423.000	3.0
140.7446	28.02	-3.43	71383.700	2.0	142434.400	2.0	141.0463	25.02	-3.46	43602.500	3.5	114501.180	4.5
140.7454	27.02	-7.76	98545.600	3.5	169595.900	3.5	141.0467	25.01	-4.30	36274.290	2.0	107172.800	3.0
140.7480	26.01	-1.69	22939.350	2.5	93988.300	2.5	141.0477	30.02	-4.90	237504.800	1.0	308404.800	2.0
140.7555	25.02	-3.09	68899.200	4.5	139944.400	3.5	141.0559	28.02	-1.40	62606.300	3.0	133500.200	2.0
140.7580	24.01	-4.59	20512.620	2.5	91556.540	1.5	141.0573	26.01	-4.16	8391.920	2.5	79285.100	2.5
140.7624	30.02	-9.94	147498.600	1.0	218540.300	2.0	141.0615	26.01	-4.99	21711.890	3.5	92602.940	3.5
140.7637	26.02	-1.72	117068.560	3.0	188109.580	3.0	141.0726	26.01	-3.32	13474.430	2.5	84359.900	1.5
140.7694	26.02	-2.73	66522.950	2.0	137561.100	1.0	141.0764	26.01	-3.12	21812.040	1.5	92695.620	2.5
140.7780	9.02	-1.05	395268.130	1.5	466301.960	2.5	141.0798	25.01	-8.16	27583.300	4.0	98465.150	5.0
140.7792	24.02	-2.81	43321.700	3.0	114354.900	4.0	141.0818	25.01	-9.02	27583.300	4.0	98464.160	4.0
140.7818	27.02	-5.01	37021.000	3.5	108052.900	2.5	141.0845	30.02	-2.46	234384.000	3.0	305263.500	2.0
140.7882	12.02	-7.77	475502.900	1.0	546531.600	1.0	141.0877	25.01	-1.77	38366.070	2.0	109243.950	3.0
140.7915	9.02	-1.64	395268.130	1.5	466295.150	1.5	141.0909	25.01	-1.55	38366.070	2.0	109242.360	2.0
140.7926	25.02	-2.27	72183.330	3.5	143209.800	2.5	141.0916	25.01	-8.33	27588.230	3.0	98464.160	4.0
140.7961	9.02	-3.69	387367.920	2.5	458392.610	1.5	141.0930	25.01	-1.60	38366.070	2.0	109241.310	1.0
140.8014	26.01	-6.99	21308.080	1.5	92330.100	2.5	141.0936	25.01	-8.88	27588.230	3.0	98463.160	3.0
140.8021	26.02	-2.46	66522.950	2.0	137544.600	2.0	141.0952	25.01	-8.95	27589.030	2.0	98463.160	3.0
140.8028	26.01	-5.69	21581.640	4.5	92602.940	3.5	141.0952	25.01	-9.90	27588.230	3.0	98462.340	2.0
140.8039	23.02	-3.44	87218.920	3.5	158239.700	2.5	141.0962	26.02	-2.54	63486.780	4.0	134360.400	6.0
140.8041	18.01	-3.38	132481.140	2.5	203501.800	2.5	141.0968	25.01	-9.33	27589.030	2.0	98462.340	2.0
140.8131	28.01	-4.16	25036.380	2.5	96052.480	2.5	141.0996	15.00	-2.02	11360.800	1.5	82232.700	2.5
140.8203	27.02	-6.61	99182.200	.5	170194.700	.5	141.1011	18.01	-3.78	132630.650	1.5	203501.800	2.5
140.8233	28.03	-1.39	111187.860	3.5	182198.850	2.5	141.1031	18.01	-4.73	132327.280	3.5	203197.440	3.5
140.8252	26.04	-4.32	186736.000	2.0	257746.000	1.0	141.1065	28.01	-7.74	1506.940	1.5	72375.420	1.5
140.8314	25.01	-4.53	43370.370	3.0	114377.250	4.0	141.1102	30.02	-3.48	234384.000	3.0	305250.600	3.0
140.8394	25.02	-2.54	68899.200	4.5	139902.060	5.5	141.1106	26.02	-3.04	63494.000	3.0	134360.400	4.0
140.8476	26.01	-4.54	21251.550	6.5	92250.270	6.5	141.1126	29.02	-2.41	122503.600	3.5	193369.000	4.5
140.8498	26.02	-4.25	69695.730	4.0	140693.360	3.0	141.1157	18.01	-3.11	132481.140	2.5	203344.980	1.5
140.8514	26.01	-3.82	21430.390	5.5	92427.220	4.5	141.1188	28.02	-3.12	63472.600	2.0	134334.900	3.0
140.8536	29.02	-4.50	124557.500	3.5	195553.200	2.5	141.1227	25.01	-4.97	43484.500	2.0	114344.840	2.0
140.8585	18.01	-3.77	132737.610	.5	203730.860	1.5	141.1238	20.02	-2.39	290934.300	0.0	361794.080	1.0
140.8593	26.02	-1.90	118686.250	4.0	189679.070	3.0	141.1281	11.02	-7.05	440552.400	3.5	511410.000	2.5
140.8599	24.02	-5.57	25781.000	2.0	96773.500	1.0	141.1286	28.01	-5.00	25036.380	2.5	95893.760	1.5
140.8643	23.03	-6.61	146117.700	1.0	217108.000	2.0	141.1297	30.02	-1.23	147571.200	1.5	218428.000	0.0
140.8691	30.02	-4.53	147921.500	2.0	218909.400	1.0	141.1306	10.01	-3.14	219947.460	.5	290803.820	.5
140.8703	24.02	-2.43	25725.800	3.0	96713.100	3.0	141.1307	15.00	-1.11	11376.400	2.5	82232.700	2.5
140.8718	28.01	-2.17	58493.210	2.5	129479.730	1.5	141.1321	26.02	-4.64	69837.760	2.0	140693.360	3.0
140.8768	26.02	-2.20	131445.030	2.0	202429.040	1.0	141.1323	23.03	-1.79	147135.200	2.0	217990.700	1.0
140.8774	26.01	-6.88	21711.890	3.5	92695.620	2.5	141.1349	26.01	-4.08	8391.920	2.5	79246.130	1.5
140.8796	26.02	-4.13	122628.340	2.0	193610.920	3.0	141.1388	24.01	-7.77	0.000	2.5	70852.240	3.5
140.8806	27.02	-7.07	98545.600	3.5	169527.700	4.5	141.1397	26.01	-4.61	8391.920	2.5	79243.730	1.5
140.8807	29.01	-2.11	67916.390	1.0	138898.430	1.0	141.1422	26.01	-3.93	22637.190	4.5	93487.710	3.5
140.8817	26.02	-2.88	66591.680	1.0	137573.200	0.0	141.1457	28.03	.51	111187.860	3.5	182036.640	4.5
140.8824	23.03	-4.98	146855.100	3.0	217836.300	3.0	141.1478	15.00	-2.17	11376.400	2.5	82224.100	3.5
140.8827	28.01	-2.52	58493.210	2.5	129474.270	3.5	141.1481	26.01	-1.85	22637.190	4.5	93484.750	4.5
140.8835	26.02	-2.53	115474.250	6.0	186454.890	5.0	141.1521	26.01	-4.56	21581.640	4.5	92427.220	4.5
140.8884	25.02	-3.88	72183.330	3.5	143161.500	4.5	141.1522	26.02	-3.21	70694.030	5.0	141539.550	6.0
140.8894	26.02	-4.33	122628.340	2.0	193605.990	2.0	141.1548	23.02	-3.25	16374.700	2.5	87218.920	3.5
140.8909	27.01	-4.59	11651.310	2.0	82628.200	3.0	141.1574	26.02	-4.60	73727.640	2.0	144570.530	3.0
140.8937	25.01	-4.64	43370.370	3.0	114345.870	3.0	141.1646	30.02	-9.90	144501.200	3.0	215340.500	2.0
140.8983	30.02	-3.58	237047.800	2.0	308021.000	2.0	141.1654	28.02	-3.89	84604.800	1.0	155443.700	2.0
140.9006	26.04	-7.02	187162.000	3.0	258134.000	2.0	141.1686	25.03	-2.52	119445.500	2.0	190282.800	3.0
140.9018	26.02	-4.92	122628.340	2.0	193599.740	1.0	141.1688	26.02	-3.55	86847.110	2.0	157684.300	2.0
140.9052	14.01	-1.44	55309.610	1.5	126279.300	.5	141.1731	15.00	-1.39	11360.800	1.5	82195.800	1.5
140.9058	26.02	-2.74	66591.680	1.0	137561.100	1.0	141.1771	24.03	-1.61	162072.000	3.5	232905.000	3.5
140.9064	30.02	-1.35	147571.200	1.0	218540.300	2.0	141.1848	26.02	-3.98	88663.870	4.0	159493.000	3.0
140.9129	25.02	-2.29	68892.000	3.5	139857.840	4.0	141.1871	26.02	-3.63	87901.870	3.0	158729.890	3.0
140.9134	26.02	-3.95	50276.100	4.									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
141.2792	26.02	-4.62	122829.550	3.0	193611.370	4.0	141.6048	25.02	-4.28	43668.840	2.5	114287.910	2.5
141.2811	29.02	-5.9	123549.900	4.5	194330.800	5.5	141.6054	30.02	-4.74	147921.500	2.0	218540.300	2.0
141.2842	26.01	-1.46	1872.600	4.5	72651.910	3.5	141.6065	26.01	-2.60	21711.890	3.5	92330.100	2.5
141.2858	28.01	-3.40	58493.210	2.5	129271.720	3.5	141.6078	28.01	-3.73	51557.850	3.5	122175.420	2.5
141.2866	28.01	-1.57	0.000	2.5	70778.120	3.5	141.6101	29.01	-3.73	66418.520	2.0	137034.970	3.0
141.2868	26.01	-3.44	1872.600	4.5	72650.630	4.5	141.6104	26.02	-4.63	69836.830	3.0	140453.100	3.0
141.2946	26.02	-4.11	73727.640	2.0	144501.740	2.0	141.6108	9.02	-3.17	389525.550	1.5	460141.630	2.5
141.2948	25.01	-5.99	14593.820	3.0	85367.850	2.0	141.6123	26.02	-4.74	69837.760	2.0	140453.100	3.0
141.2953	28.01	-3.42	58705.950	1.5	129479.730	1.5	141.6154	27.02	-3.41	56373.800	2.5	126987.600	1.5
141.2974	27.02	-4.03	98823.200	2.5	169595.900	3.5	141.6166	25.02	-4.80	43674.700	1.5	114287.910	2.5
141.2988	24.01	-9.97	12148.000	2.5	82920.030	1.5	141.6280	23.02	-3.10	16330.500	1.5	86938.010	2.5
141.3000	26.02	-4.39	63494.000	3.0	134265.420	2.0	141.6283	18.01	-3.82	132737.610	5.5	203344.980	1.5
141.3011	26.02	-3.70	63494.560	2.0	134265.420	2.0	141.6300	25.02	-3.12	43602.500	3.5	114209.010	3.5
141.3027	9.02	-1.28	395268.130	1.5	466038.170	2.5	141.6303	22.01	-5.46	0.000	1.5	70606.350	2.5
141.3122	26.02	-1.25	118246.520	3.0	189011.840	4.0	141.6324	26.02	-3.02	118350.240	4.0	188955.560	3.0
141.3169	26.02	-4.67	122843.030	1.0	193605.990	2.0	141.6332	24.02	-2.42	25781.000	2.0	96385.900	2.0
141.3194	23.02	-2.09	28746.800	2.5	99508.500	1.5	141.6338	26.01	-5.01	8680.470	1.5	79285.100	2.5
141.3218	28.02	-1.28	63472.600	2.0	134233.100	2.0	141.6501	26.02	-4.70	50412.300	2.0	121008.780	3.0
141.3228	25.04	-1.74	177314.000	2.5	248074.000	2.5	141.6531	24.03	-1.95	162310.000	2.5	232905.000	3.5
141.3252	25.03	-1.69	177629.800	2.0	248388.600	2.0	141.6554	28.01	-4.82	9330.040	3.5	79923.880	4.5
141.3294	26.02	-4.56	122843.030	1.0	193599.740	1.0	141.6581	28.02	-4.13	71841.900	1.0	142434.400	2.0
141.3311	26.01	-6.24	23317.600	2.5	94073.460	3.5	141.6608	9.02	-3.38	387367.920	2.5	457959.070	3.5
141.3354	17.03	-4.91	181643.000	2.0	252396.700	2.0	141.6609	25.01	-4.99	37847.900	2.0	108439.000	3.0
141.3382	26.02	-4.91	122843.030	1.0	193599.740	1.0	141.6619	24.01	-2.24	20512.750	5.5	91103.360	4.5
141.3398	15.00	-2.28	11360.800	1.5	82112.300	0.5	141.6625	26.01	-2.85	21581.640	4.5	92171.950	4.5
141.3526	26.02	-4.27	66464.640	3.0	137209.730	4.0	141.6626	25.01	-4.74	37851.150	3.0	108441.400	4.0
141.3526	25.01	-7.20	0.000	3.0	70745.080	3.0	141.6633	25.03	-1.83	178075.100	3.0	248665.000	4.0
141.3596	26.01	-2.47	21430.390	5.5	92171.950	4.5	141.6651	24.03	-3.22	104265.000	2.5	174854.000	3.5
141.3597	26.02	-3.30	70725.010	3.0	141466.530	3.0	141.6659	28.02	-3.58	86646.200	2.0	157234.800	1.0
141.3659	26.02	-6.61	42896.900	3.0	113635.340	4.0	141.6660	28.01	-2.16	58705.950	1.5	129294.510	2.5
141.3672	26.02	-2.26	70728.750	4.0	141466.530	3.0	141.6678	26.02	-4.68	117521.910	4.0	188109.580	3.0
141.3699	26.01	-4.62	21430.390	5.5	92166.810	5.5	141.6681	23.02	-3.48	88559.080	1.5	159146.600	2.5
141.3699	27.02	-5.89	37316.500	2.5	108052.900	2.5	141.6698	25.01	-7.01	14781.190	2.0	85367.850	2.0
141.3709	15.00	-2.38	11376.400	2.5	82112.300	2.5	141.6707	26.01	-2.88	2430.080	3.5	73016.330	3.5
141.3713	26.01	-4.62	7955.240	3.5	78690.980	2.5	141.6725	26.02	-3.34	131445.030	2.0	202030.380	3.0
141.3756	23.02	-4.21	16810.900	4.5	87544.460	4.5	141.6726	26.01	-3.18	22810.330	3.5	93395.600	2.5
141.3774	26.02	-3.36	50276.100	4.0	121008.780	3.0	141.6728	26.01	-2.10	21581.640	4.5	92166.810	5.5
141.3825	27.01	-4.16	9812.700	4.0	80542.800	3.0	141.6731	24.01	-2.66	20518.330	3.5	91103.360	4.5
141.3891	27.02	-4.25	99043.500	1.5	169770.300	2.5	141.6739	24.01	-8.00	0.000	2.5	70584.660	2.5
141.3957	10.01	-2.27	219648.440	1.5	290371.950	2.5	141.6762	24.01	-1.73	20519.850	4.5	91103.360	4.5
141.4049	28.02	-2.60	62606.300	3.0	133325.200	4.0	141.6775	28.01	-3.21	51557.850	3.5	122140.710	4.5
141.4121	26.01	-6.37	21711.890	3.5	92427.220	4.5	141.6852	24.03	-4.93	162310.000	2.5	232889.000	3.5
141.4141	18.01	-3.84	132630.650	1.5	203344.980	1.5	141.6956	16.03	-4.30	950.200	1.5	71524.000	1.5
141.4156	26.02	-4.66	50295.200	3.0	121008.780	3.0	141.6991	25.01	-1.61	38901.800	4.0	109473.900	4.0
141.4159	26.01	-2.77	2630.080	3.5	73143.480	3.5	141.7005	28.01	-1.77	57420.160	2.5	127991.560	3.5
141.4167	24.03	-3.48	104265.000	2.5	174978.000	2.5	141.7015	26.01	-3.24	21711.890	3.5	92282.760	3.5
141.4186	26.02	-4.33	122898.840	2.0	193610.920	3.0	141.7053	29.02	-4.64	126829.400	3.5	197398.400	2.5
141.4205	26.02	-2.45	131445.030	2.0	202156.130	2.0	141.7054	26.02	-1.81	118442.920	3.0	189011.840	4.0
141.4246	26.02	-2.16	118246.520	3.0	188955.560	3.0	141.7085	12.02	-4.98	536152.000	1.0	606719.400	2.0
141.4258	26.02	-6.00	42896.900	3.0	113605.370	3.0	141.7096	23.02	-2.66	16977.600	5.5	87544.460	4.5
141.4284	26.02	-4.54	122898.840	2.0	193605.990	2.0	141.7119	29.02	-4.49	123549.900	4.5	194115.600	3.5
141.4290	28.01	-3.34	66571.340	2.5	137278.220	1.5	141.7120	26.01	-4.34	8680.470	1.5	79246.130	1.5
141.4292	28.01	-1.97	0.000	2.5	70706.770	1.5	141.7167	23.02	-3.05	16374.700	2.5	86938.010	2.5
141.4363	25.01	-1.33	38542.960	3.0	109246.150	4.0	141.7168	26.01	-5.06	8680.470	1.5	79243.730	1.5
141.4405	26.01	-2.28	21581.640	4.5	92282.760	3.5	141.7211	12.02	-2.51	536152.000	1.0	606713.100	1.0
141.4405	23.03	-4.41	147135.200	2.0	217836.300	3.0	141.7223	26.01	-5.32	16369.390	3.5	86929.920	3.5
141.4407	25.01	-1.44	38542.960	3.0	109243.950	3.0	141.7394	28.02	-1.19	62606.300	3.0	133158.300	3.0
141.4421	29.02	-4.49	125744.600	1.5	196444.900	1.5	141.7399	26.01	-6.41	25805.320	4.5	96357.070	3.5
141.4439	25.01	-1.85	38542.960	3.0	109246.360	2.0	141.7467	26.01	-2.93	22939.350	2.5	93487.710	3.5
141.4457	28.01	-3.48	66579.710	1.5	137278.220	1.5	141.7500	26.01	-5.91	21812.040	1.5	92358.800	1.5
141.4537	29.01	-3.13	68447.570	3.0	139142.100	2.0	141.7514	25.01	-5.51	0.000	3.0	70546.020	4.0
141.4561	23.02	-3.27	28746.800	2.5	99440.100	2.5	141.7545	29.02	-3.34	126829.400	3.5	197373.900	3.5
141.4619	25.03	-1.38	119445.500	2.0	190135.900	2.0	141.7547	13.03	-1.29	688653.000	1.0	759197.400	0.0
141.4681	26.02	-7.03	42896.900	3.0	113584.200	2.0	141.7547	13.03	-1.29	688653.000	1.0	759197.400	0.0
141.4693	26.01	-2.34	13673.210	1.5	84359.900	1.5	141.7548	28.01	-2.99	24788.200	1.5	95332.530	2.5
141.4695	26.01	-2.36	21430.390	5.5	92116.980	4.5	141.7632	25.02	-3.84	43668.840	2.5	114209.010	3.5
141.4719	25.02	-3.74	43602.500	3.5	114287.910	2.5	141.7648	26.02	-3.58	77075.300	1.0	147614.650	2.0
141.4735	26.02	-4.53	122921.370	1.0	193605.990	2.0	141.7682	24.02	-3.11	25848.200	1.0	96385.900	2.0
141.4767	26.04	-4.66	195942.000	3.0	266625.000	2.0	141.7695	28.01	-3.03	25036.380	2.5	95573.390	3.5
141.4773	12.02	-1.37	536152.000	1.0	606834.700	2.0	141.7729	26.01	-4.71	21581.640	4.5	92116.980	4.5
141.4788	26.02	-1.38	116316.630	5.0	186998.600	4.0	141.7761	29.01	-3.70	68447.570	3.0	138981.300	2.0
141.4844	26.02	-2.38	76956.790	3.0	147635.950	3.0	141.7766	26.02	-3.22	77102.430	2.0	147635.950	3.0
141.4853	23.03	-4.16	146429.300	2.0	217108.000	2.0	141.7812	26.02	-4.79	116467.410	4.0	186998.600	4.0
141.4860	26.02	-4.42	122921.370	1.0	193599.740	1.0	141.7817	26.02	-3.53	50295.200	3.0	120826.170	2.0
141.4880	26.01	-2.16	22810.330	3.5	93487.710	3.5	141.7850	15.00	-6.18	11360.800	1.5	81890.100	2.5
141.4893	29.01	-1.24	67916.390	1.0	138593.100	1.0	141.7856	24.03	-3.23	104637.000	3.5	175166.000	3.5
141.4919	29.02	-2.64	123440.200	2.5	194115.600	3.5	141.7862	28.01	-4.16	51557.850	3.5	122086.580	1.5
141.4935	30.02	-2.31	234576.000	4.0	3052								

ORIGINAL PAGE IS
OF POOR QUALITY

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
141.8667	28.02	-2.59	62606.300	3.0	133095.000	3.0	142.1829	26.02	-1.05	116380.070	1.0	186712.020	1.0
141.8680	10.01	-3.13	246394.130	2.5	316882.210	2.5	142.1885	26.02	-3.79	86464.640	3.0	136793.820	2.0
141.8711	27.01	-4.80	9812.700	4.0	80299.200	4.0	142.1889	23.02	-4.42	85524.000	2.5	155853.000	2.5
141.8747	10.01	-1.99	246397.490	1.5	316882.210	2.5	142.1909	28.01	-1.94	86571.340	2.5	136899.330	1.5
141.8802	29.02	-1.10	126891.900	2.5	197373.900	3.5	142.1924	25.01	-4.48	43370.370	3.0	113697.600	3.0
141.8819	26.02	-3.44	77075.300	1.0	147556.450	1.0	142.1946	9.02	-3.00	413195.000	2.5	483521.140	3.5
141.8851	26.01	-2.41	1872.600	4.5	72352.170	3.5	142.1949	28.02	-2.64	86646.200	2.0	156972.200	3.0
141.8929	25.01	-4.79	36274.290	2.0	106750.000	2.0	142.1957	26.02	-2.06	118686.250	4.0	189011.840	4.0
141.8929	23.03	-4.66	146429.300	2.0	216905.000	1.0	142.1988	26.02	-3.19	132104.940	2.0	202429.040	1.0
141.8969	24.01	-2.82	20512.620	2.5	90986.310	3.5	142.1996	17.03	-1.49	182073.000	1.0	252396.700	2.0
141.9084	24.01	-1.89	20518.330	3.5	90986.310	3.5	142.2035	25.01	-3.87	33278.390	3.0	103600.170	2.0
141.9098	26.02	-2.91	118557.250	5.0	189024.530	5.0	142.2044	25.03	-1.30	119961.500	3.0	190282.600	3.0
141.9111	25.01	-5.69	14901.180	1.0	85367.850	2.0	142.2073	28.01	-4.30	67694.640	2.5	138014.530	2.5
141.9115	24.01	-2.24	20519.850	4.5	90986.310	3.5	142.2078	28.01	-3.67	66579.710	1.5	136899.330	1.5
141.9173	26.02	-1.12	116419.390	2.0	184882.980	3.0	142.2121	12.02	-1.66	475502.900	1.0	545820.400	2.0
141.9185	16.05	-8.85	451785.000	1.5	522248.000	1.5	142.2130	24.01	-8.19	0.000	2.5	70317.040	2.5
141.9220	23.02	-2.23	92052.550	4.5	162513.800	4.5	142.2139	25.02	-5.34	43674.700	1.5	113991.310	.5
141.9244	26.01	-3.94	21711.890	3.5	92171.950	4.5	142.2145	26.02	-1.35	116475.440	3.0	186791.780	2.0
141.9321	26.01	-2.47	22939.350	2.5	93395.600	2.5	142.2168	9.02	-1.72	413195.000	2.5	483510.170	2.5
141.9329	9.02	-3.17	3877259.280	1.5	457715.100	2.5	142.2177	26.01	-8.03	0.000	4.5	70314.740	4.5
141.9345	26.01	-2.46	13904.870	.5	84359.900	1.5	142.2202	25.03	-2.79	178075.100	3.0	248388.600	3.0
141.9354	26.02	-2.47	118557.250	5.0	189011.840	4.0	142.2294	26.02	-1.56	70694.030	5.0	141002.990	4.0
141.9365	26.02	-2.90	77102.430	2.0	147556.450	1.0	142.2294	23.02	-3.68	92052.550	4.5	162361.500	5.5
141.9382	28.02	-1.41	61339.200	4.0	131792.400	4.0	142.2363	26.01	-4.98	2837.940	2.5	73143.480	3.5
141.9421	25.02	-4.18	63285.370	4.5	133736.640	5.5	142.2427	22.02	-3.34	10721.200	2.0	81023.600	2.0
141.9577	23.03	.54	147656.500	3.0	218100.000	4.0	142.2441	26.01	-4.80	26055.400	2.5	96357.070	3.5
141.9581	28.03	-.04	111755.520	2.5	182198.850	2.5	142.2469	24.02	-2.47	25848.200	1.0	96148.500	1.0
141.9598	25.01	-1.03	38806.530	4.0	109249.000	5.0	142.2494	26.02	-7.40	8391.920	2.5	78690.980	2.5
141.9648	16.05	.10	451808.000	2.5	522248.000	1.5	142.2516	26.01	-5.40	25981.650	3.5	96279.650	2.5
141.9656	25.01	-1.55	38806.530	4.0	109246.150	4.0	142.2530	26.01	-3.04	23031.300	1.5	93328.600	1.5
141.9700	25.01	-2.28	38806.530	4.0	109243.950	3.0	142.2553	28.01	-3.73	25036.380	2.5	95332.530	2.5
141.9737	9.02	-2.01	387523.470	3.5	457959.070	3.5	142.2558	9.02	-1.95	3877259.280	1.5	457555.170	1.5
141.9740	29.01	-1.63	68447.570	3.0	138883.000	4.0	142.2624	26.02	-1.57	116419.390	2.0	186712.020	1.0
141.9755	23.02	-3.83	28746.800	2.5	93181.500	1.5	142.2866	26.02	-5.55	116316.630	5.0	186597.300	6.0
141.9773	26.01	-2.20	25805.320	4.5	96239.100	4.5	142.2900	9.02	-3.68	389525.550	1.5	459804.550	1.5
141.9906	24.01	-7.29	0.000	2.5	70427.220	3.5	142.2921	26.02	-4.16	70725.010	3.0	141002.990	4.0
141.9928	25.02	-4.29	43668.840	2.5	114094.970	1.5	142.2929	23.02	-3.28	85524.000	2.5	155801.600	1.5
142.0023	28.01	-4.71	68154.310	1.5	138575.690	2.5	142.2963	11.01	-2.62	293224.120	1.0	363500.000	1.0
142.0025	27.02	-2.69	57036.800	.5	127458.100	1.5	142.2969	30.02	-1.71	147571.200	1.0	217846.800	2.0
142.0046	25.02	-5.44	43674.700	1.5	114094.970	1.5	142.2997	26.02	-2.56	70728.750	4.0	141002.990	4.0
142.0051	22.02	-.87	10603.600	1.0	81023.600	2.0	142.2998	23.02	-2.78	87880.850	2.5	158155.000	1.5
142.0071	20.02	-2.01	290934.300	0.0	361353.310	1.0	142.2999	26.02	-4.62	66522.950	2.0	136797.050	3.0
142.0077	15.00	-1.81	11376.400	2.5	81795.100	3.5	142.3065	26.02	-3.43	66522.950	2.0	136793.820	2.0
142.0140	26.02	-1.35	116467.410	4.0	186882.980	3.0	142.3096	26.02	-2.63	118686.250	4.0	188955.560	3.0
142.0218	26.02	-1.12	116380.070	1.0	186791.780	2.0	142.3206	28.01	-1.62	1506.940	1.5	71770.830	2.5
142.0239	25.01	-2.19	43464.500	2.0	113895.200	2.0	142.3214	27.02	-2.56	55729.200	3.5	125992.700	2.5
142.0293	23.02	-3.36	16810.900	4.5	87218.920	3.5	142.3224	24.03	-2.42	162310.000	2.5	232573.000	2.5
142.0302	26.02	-.82	116475.440	3.0	186882.980	3.0	142.3257	28.02	-.28	111220.900	3.0	181482.300	4.0
142.0346	26.02	-4.16	49576.900	1.0	119982.260	1.0	142.3278	25.01	-3.82	39808.140	3.0	110068.500	2.0
142.0348	29.02	-1.50	125381.800	2.5	195787.100	3.5	142.3329	26.01	-5.81	1872.600	4.5	72130.440	4.5
142.0352	26.01	-2.17	21711.890	3.5	92116.980	4.5	142.3337	26.01	-4.49	25981.650	3.5	96239.100	4.5
142.0366	26.01	-4.31	21812.040	1.5	92216.420	1.5	142.3349	26.01	-3.80	25805.320	4.5	96062.180	5.5
142.0368	25.03	-2.16	178579.500	4.0	248983.800	5.0	142.3384	25.01	-3.97	39813.380	2.0	110068.500	2.0
142.0380	15.00	-2.17	11360.800	1.5	81764.500	1.5	142.3401	23.02	-4.88	85875.740	3.5	156130.000	4.5
142.0394	26.04	-.59	196845.000	4.0	267248.000	3.0	142.3429	23.03	-.33	146855.100	3.0	217108.000	2.0
142.0422	22.02	-.95	10536.400	0.0	80938.020	1.0	142.3445	17.02	-4.17	151848.600	2.5	222100.700	1.5
142.0451	23.01	-1.65	8640.210	2.0	79040.400	3.0	142.3457	25.01	-3.56	36274.290	2.0	106525.800	3.0
142.0460	26.02	-4.19	130256.270	5.0	200656.020	6.0	142.3544	28.01	-1.83	67031.020	.5	137278.220	1.5
142.0467	26.01	-5.12	8846.760	.5	79246.130	1.5	142.3565	10.01	-2.62	224087.020	1.5	294333.220	.5
142.0485	26.01	-4.39	16369.390	3.5	86767.870	2.5	142.3575	27.02	-4.81	71623.100	6.5	141868.800	6.5
142.0516	26.01	-5.74	8846.760	.5	79243.730	1.5	142.3589	16.05	-1.15	451785.000	1.5	522030.000	.5
142.0520	25.01	-4.93	39808.140	3.0	110204.900	3.0	142.3719	23.03	.03	155565.500	1.0	225804.100	2.0
142.0523	30.02	-2.86	234866.900	1.0	305263.500	2.0	142.3813	26.02	-4.35	118721.600	2.0	188955.560	3.0
142.0571	26.01	-2.18	13474.430	2.5	83868.650	2.5	142.3848	9.02	-.98	387726.840	4.5	457959.070	3.5
142.0624	15.00	-6.88	0.000	1.5	70391.600	2.5	142.3871	25.01	-7.55	0.000	3.0	70231.070	2.0
142.0634	27.02	-2.85	73286.000	4.5	143677.100	3.5	142.3879	12.03	-3.38	612240.300	1.5	682471.000	1.5
142.0668	28.01	-1.59	66571.340	2.5	134960.750	2.5	142.3897	16.03	-4.43	950.200	1.5	71180.000	.5
142.0671	26.01	-5.25	22939.350	2.5	93328.600	1.5	142.4005	25.02	-4.44	62747.500	2.5	132971.990	3.5
142.0672	26.01	-2.98	1872.600	4.5	72261.830	5.5	142.4010	26.01	-3.58	26055.400	2.5	96279.650	2.5
142.0677	26.02	-4.45	73727.640	2.0	141116.640	3.0	142.4059	26.01	-2.72	2430.080	3.5	72651.910	3.5
142.0681	29.01	-4.18	68730.720	4.0	139119.500	3.0	142.4079	17.02	-3.69	151879.900	1.5	222100.700	1.5
142.0695	15.00	-2.66	11376.400	2.5	81764.500	1.5	142.4085	26.01	-4.97	2430.080	3.5	72650.630	4.5
142.0700	3.01	-.59	491361.000	0.0	561748.837	0.0	142.4111	26.02	-4.31	160037.900	2.0	230257.150	2.0
142.0730	23.02	-2.72	16330.500	1.5	86716.840	1.5	142.4156	26.01	-3.32	2837.940	2.5	73054.970	2.5
142.0743	25.01	-4.69	36364.300	1.0	106750.000	2.0	142.4156	18.01	-2.69	132327.280	3.5	202544.320	2.5
142.0837	28.01	-1.63	66579.710	1.5	136960.750	2.5	142.4157	24.03	-2.07	104637.000	3.5	174854.000	3.5
142.0855	28.01	-4.17	66579.710	1.5	136959.860	2.5	142.4160	22.02	-.84	10721.200	2.0	80938.020	1.0
142.0893	30.02	-2.43	237642.700	3.0	308021.000	2.0	142.4201	23.03	-.82	147135.200			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
142.4940	26.01	-6.05	2837.940	2.5	73016.330	3.5
142.4945	26.01	-2.64	16369.390	3.5	86547.550	2.5
142.4999	27.02	-1.95	56373.800	2.5	126549.300	3.5
142.4999	13.03	-9.96	618477.500	1.0	688653.000	1.0
142.5021	25.03	-2.94	119961.500	3.0	190135.900	2.0
142.5049	16.00	.01	0.000	2.0	70173.010	3.0
142.5055	25.02	-9.04	111776.600	1.5	181949.340	2.5
142.5082	29.02	-4.46	125381.800	2.5	195553.200	2.5
142.5108	26.01	-5.51	23317.600	2.5	93487.710	3.5
142.5157	25.01	-3.94	39826.570	1.0	109994.300	1.0
142.5193	26.02	-3.24	97041.380	3.0	167207.300	4.0
142.5207	16.00	-7.74	0.000	2.0	70165.237	2.0
142.5210	30.02	-1.04	147498.600	1.0	217663.700	1.0
142.5238	16.00	-1.91	0.000	2.0	70163.700	1.0
142.5283	26.01	-5.61	8680.470	1.5	78841.970	.5
142.5285	28.01	-2.29	66571.340	2.5	136732.740	1.5
142.5287	15.00	-2.15	11360.800	1.5	81522.100	2.5
142.5291	28.02	-3.24	61339.200	4.0	131500.300	5.0
142.5307	27.02	-3.03	103690.800	.5	173851.100	.5
142.5307	27.02	-3.03	103690.800	.5	173851.100	.5
142.5307	27.02	-2.51	103690.800	.5	173851.100	.5
142.5322	27.02	-2.93	76791.100	1.5	146950.700	2.5
142.5328	27.02	-4.45	98290.300	4.5	168449.600	3.5
142.5358	15.00	-2.44	11376.400	2.5	81534.200	3.5
142.5416	26.02	-4.22	160037.900	2.0	230192.860	3.0
142.5429	28.02	-2.84	113705.000	4.0	183859.300	3.0
142.5429	17.02	-4.31	151946.400	.5	222100.700	1.5
142.5470	29.01	-3.07	68730.720	4.0	138883.000	4.0
142.5539	26.02	-3.93	129854.800	6.0	200003.700	7.0
142.5555	26.02	-3.95	66464.640	3.0	136612.780	4.0
142.5604	15.00	-2.93	11376.400	2.5	81522.100	2.5
142.5606	28.01	-1.81	66579.710	1.5	136725.330	.5
142.5653	27.02	-2.28	98545.600	3.5	168688.900	2.5
142.5739	26.02	-4.78	130256.270	5.0	200395.330	5.0
142.5741	26.01	-9.61	384.770	3.5	70523.730	3.5
142.5755	26.02	-1.22	116316.630	5.0	186454.890	5.0
142.5783	27.02	-3.28	73540.200	3.5	143677.100	3.5
142.5802	28.03	-8.27	112144.090	1.5	182280.040	.5
142.5894	26.02	-3.27	69695.730	4.0	139827.170	4.0
142.5894	25.01	-3.96	39826.570	1.0	109958.000	0.0
142.6147	30.02	-1.91	147921.500	2.0	218040.500	3.0
142.6180	28.02	-1.40	112935.300	3.0	183052.700	3.0
142.6262	26.01	-3.98	16369.390	3.5	86482.750	3.5
142.6347	28.01	-4.64	52738.450	2.5	122847.600	3.5
142.6366	28.03	-9.09	12144.090	1.5	182252.330	1.5
142.6451	13.02	-4.07	143633.380	.5	213737.440	1.5
142.6481	18.01	-2.46	132327.280	3.5	202429.840	3.5
142.6486	25.01	-3.40	14325.860	4.0	84428.210	5.0
142.6534	24.03	-3.11	104003.000	1.5	174103.000	2.5
142.6546	25.01	-3.45	36274.290	2.0	106373.700	2.0
142.6566	26.02	-3.32	119697.640	2.0	189796.030	1.0
142.6603	30.02	-9.32	145243.900	2.0	215340.500	2.0
142.6629	26.01	-7.08	8391.920	2.5	78487.250	1.5
142.6647	23.03	.87	148369.200	4.0	218463.600	5.0
142.6686	30.02	-6.63	147571.200	1.0	217663.700	1.0
142.6769	29.01	-4.60	68730.720	4.0	138819.170	3.0
142.6801	26.02	-1.85	119697.640	2.0	189784.520	2.0
142.6806	26.02	-4.84	19404.800	2.0	89491.390	1.0
142.6829	25.03	-3.05	178579.500	4.0	248665.000	4.0
142.6884	17.03	-6.62	181643.000	2.0	251725.800	1.0
142.6902	28.01	-4.67	67694.640	2.5	137776.550	3.5
142.6909	25.01	-4.21	38366.070	2.0	108447.600	2.0
142.6928	27.01	-4.49	10708.100	3.0	80788.700	2.0
142.6938	26.02	-2.49	87901.870	3.0	157982.000	3.0
142.6973	23.02	-2.97	28746.800	2.5	98825.190	3.5
142.6981	26.01	-5.75	23317.600	2.5	93395.600	2.5
142.7018	26.02	-4.33	132079.910	3.0	202156.130	2.0
142.7020	27.02	-3.48	56794.800	1.5	126870.900	2.5
142.7062	25.02	-6.29	43602.500	3.5	113676.530	2.5
142.7064	25.01	-3.13	31514.350	4.0	101588.300	3.0
142.7110	26.01	-3.06	3117.480	1.5	73189.160	1.5
142.7124	24.04	-1.40	167497.000	2.0	237568.000	3.0
142.7126	25.03	-2.57	119961.500	3.0	190032.400	4.0
142.7145	26.01	-2.56	3117.480	1.5	73187.460	.5
142.7159	26.02	-4.17	130256.270	5.0	200325.560	4.0
142.7166	26.01	-2.71	26170.190	5.5	96239.100	4.5
142.7207	9.02	-3.64	389737.630	.5	459804.550	1.5
142.7211	11.02	-2.27	374681.400	.5	444748.100	1.5
142.7225	26.02	-2.25	88663.870	4.0	158729.890	3.0
142.7231	25.02	-1.15	111883.600	2.5	181949.340	2.5
142.7270	9.02	-4.50	390077.800	2.5	460141.630	2.5
142.7283	18.01	-3.27	132481.140	2.5	202544.320	2.5
142.7301	26.02	-2.82	116316.630	5.0	186378.940	4.0
142.7301	27.02	-1.33	98823.200	2.5	168885.500	1.5
142.7321	9.02	-3.95	390080.300	1.5	460141.630	2.5
142.7455	28.03	.06	12144.090	1.5	182198.850	2.5
142.7490	26.02	-4.14	123552.950	1.0	193605.990	2.0
142.7491	24.03	-2.00	105113.000	4.5	175166.000	3.5
142.7519	24.02	-3.32	43304.100	2.0	113355.700	2.0
142.7527	26.02	-1.71	132104.940	2.0	202156.130	2.0
142.7527	26.02	-4.69	129854.800	6.0	199906.030	6.0
142.7585	29.01	-1.22	68850.060	0.0	138898.430	1.0
142.7617	26.02	-4.03	123552.950	1.0	193599.740	1.0
142.7652	23.02	-3.46	85524.000	2.5	155569.100	2.5
142.7679	26.02	-3.56	97041.380	3.0	167085.120	3.0
142.7708	26.02	-4.38	123552.950	1.0	193595.300	0.0
142.7723	15.00	-1.60	11360.800	1.5	81402.400	2.5
142.7760	25.01	-6.37	9472.970	2.0	79512.730	3.0
142.7831	29.01	-2.27	69704.800	4.0	139741.100	3.0
142.7878	24.02	-2.76	43321.700	3.0	113355.700	2.0
142.7927	28.02	-3.24	71383.700	2.0	141415.300	1.0
142.7968	26.02	-3.93	129854.800	6.0	199884.390	5.0
142.8008	28.02	-2.08	63472.600	2.0	133500.200	2.0
142.8041	15.00	-2.41	11376.400	2.5	81402.400	2.5
142.8042	26.02	-1.61	70725.010	3.0	140750.980	2.0
142.8072	29.02	-1.05	68963.600	2.5	138988.100	1.5
142.8083	13.02	-3.82	143713.500	1.5	213737.440	2.5
142.8083	13.02	-4.77	143713.500	1.5	213737.440	1.5
142.8196	29.02	-2.41	68963.600	2.5	138982.000	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
142.8204	28.01	-3.75	66571.340	2.5	136589.350	3.5
142.8253	27.02	-4.32	103593.700	2.5	173609.300	1.5
142.8253	27.02	-4.32	103593.700	2.5	173609.300	1.5
142.8253	27.02	-2.27	103593.700	2.5	173609.300	1.5
142.8347	26.01	-6.38	23317.600	2.5	93328.600	1.5
142.8355	29.01	-9.90	71531.500	3.0	141542.100	2.0
142.8357	26.01	-7.28	8680.470	1.5	78690.980	2.5
142.8380	25.01	-3.48	36364.300	1.0	106373.700	2.0
142.8408	27.02	-3.54	56373.800	2.5	126381.800	1.5
142.8415	25.02	-4.13	43668.840	2.5	113676.530	2.5
142.8431	28.02	-3.77	85834.800	5.0	155841.700	4.0
142.8484	26.01	-3.35	26352.800	4.5	96357.070	3.5
142.8534	25.02	-4.89	43674.700	1.5	113676.530	2.5
142.8569	27.02	-4.59	71873.700	5.5	141873.800	5.5
142.8582	10.01	-2.10	224087.020	1.5	294086.490	1.5
142.8602	23.02	-5.94	16810.900	4.5	86809.390	5.5
142.8669	26.01	-5.20	8846.760	.5	78841.970	.5
142.8671	27.02	-4.65	71873.700	5.5	141868.800	6.5
142.8755	25.01	-4.15	36274.290	2.0	106265.300	1.0
142.8769	26.02	-3.69	69838.830	3.0	139827.170	4.0
142.8827	26.02	-6.60	116467.410	4.0	186454.890	5.0
142.8857	18.01	-3.20	132481.140	2.5	202467.140	1.5
142.8869	25.01	-6.66	9472.970	2.0	79458.380	2.0
142.8883	26.02	-6.71	116898.220	2.0	186882.980	3.0
142.8917	25.02	-4.79	62988.920	3.5	132971.990	3.5
142.8918	11.05	-1.17	1077752.000	2.0	1147735.000	2.0
142.8951	26.02	-1.02	119697.640	2.0	189679.070	3.0
142.8952	25.01	-2.37	14325.860	4.0	84307.200	4.0
142.8955	18.01	-3.19	149179.170	3.5	219160.400	2.5
142.8969	27.02	-6.94	37316.500	2.5	107297.000	1.5
142.8998	26.02	-3.33	118163.560	2.0	188142.640	2.0
142.9036	23.02	-3.76	85875.740	3.5	155853.000	2.5
142.9127	23.02	-2.39	85524.000	2.5	155496.800	1.5
142.9127	23.03	-6.12	147135.200	2.0	217108.000	2.0
142.9218	26.02	-2.68	70725.010	3.0	140693.360	3.0
142.9222	26.02	-2.92	118163.560	2.0	188131.700	1.0
142.9231	27.02	-5.50	99043.500	1.5	169011.200	.5
142.9271	26.01	-5.54	22637.190	4.5	92602.940	3.5
142.9294	26.02	-1.56	70728.750	4.0	140693.360	3.0
142.9300	27.02	-1.82	86327.100	3.5	156291.400	2.5
142.932						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
143.0916	26.01	-4.85	22810.330	3.5	92695.620	2.5	143.3826	25.02	-3.82	68892.000	3.5	138635.460	2.5
143.0942	26.02	-1.12	116419.390	2.0	186303.440	3.0	143.3835	29.01	-1.30	68850.060	0.0	138593.100	1.0
143.0953	29.02	-1.09	78779.400	1.5	148662.900	2.5	143.3836	22.02	-0.81	14052.700	0.0	83795.700	1.0
143.1006	28.03	-0.30	112371.430	0.5	182252.330	1.5	143.3852	30.02	-0.96	147921.500	2.0	217663.700	1.0
143.1068	28.02	-2.55	86646.200	2.0	156524.100	2.0	143.3877	24.03	-1.20	105113.000	4.5	174854.000	3.5
143.1135	12.02	-0.53	478846.100	2.0	548720.700	1.0	143.3960	26.02	-3.96	116975.050	2.0	186712.020	1.0
143.1163	26.02	-4.53	66591.680	1.0	136464.900	1.0	143.3963	28.01	-1.86	51557.850	3.5	121294.670	4.5
143.1178	26.02	-1.91	113584.200	2.0	183456.900	3.0	143.3990	26.02	-4.23	66464.640	3.0	136200.130	3.0
143.1264	28.01	-1.58	67031.020	1.5	136899.330	1.5	143.3994	14.01	-3.06	83802.210	0.5	153537.500	1.5
143.1270	26.02	-1.75	88694.670	5.0	158562.700	4.0	143.4015	30.02	-4.28	147921.500	2.0	217655.800	3.0
143.1289	28.02	-3.20	63472.600	2.0	133339.700	1.0	143.4027	24.01	-4.34	12822.860	2.5	91556.540	1.5
143.1318	27.02	-1.19	98823.200	2.5	168688.900	2.5	143.4056	24.01	-3.57	21824.250	0.5	91556.540	1.5
143.1322	26.02	-3.40	130040.560	7.0	199906.030	6.0	143.4068	24.01	-3.64	21824.820	1.5	91556.540	1.5
143.1372	26.02	-3.48	118246.520	3.0	188109.580	3.0	143.4087	23.03	-0.47	148369.200	4.0	218100.000	4.0
143.1414	26.02	-3.67	123750.390	3.0	193611.370	4.0	143.4113	18.01	-3.78	132737.610	0.5	202467.140	1.5
143.1423	26.02	-4.26	123750.390	3.0	193610.920	3.0	143.4114	25.02	-4.36	62568.080	1.5	132297.550	2.5
143.1481	28.01	-0.87	51045.460	4.5	120903.200	3.5	143.4121	23.02	-1.29	89417.500	3.5	159146.600	2.5
143.1492	15.00	-2.70	11376.400	2.5	81233.600	3.5	143.4135	18.02	-2.46	156917.620	3.0	226646.060	4.0
143.1514	26.01	-7.42	667.640	2.5	70523.730	3.5	143.4142	26.02	-3.63	70725.010	3.0	140453.100	3.0
143.1553	26.02	-1.06	116937.570	1.0	186791.780	2.0	143.4170	9.02	-2.92	390077.800	2.5	459804.550	1.5
143.1582	15.00	-4.03	0.000	1.5	69852.800	0.5	143.4219	26.02	-3.44	70728.750	4.0	140453.100	3.0
143.1603	26.02	-2.03	113605.370	3.0	183457.150	4.0	143.4221	9.02	-4.22	390080.300	1.5	459804.550	1.5
143.1612	26.02	-3.11	113605.370	3.0	183456.690	3.0	143.4242	26.02	-1.95	117068.560	3.0	186791.780	2.0
143.1652	26.02	-1.77	116419.390	2.0	186268.790	2.0	143.4259	27.02	-0.70	98290.300	4.5	168012.700	5.5
143.1656	28.02	-4.19	71067.000	3.0	140916.200	2.0	143.4311	26.02	-4.39	49148.000	0.0	118867.870	1.0
143.1664	29.02	-0.60	77967.600	2.5	147816.400	1.5	143.4365	28.01	-1.32	66571.340	2.5	136288.600	2.5
143.1770	26.02	-4.05	69836.830	3.0	139680.470	3.0	143.4445	25.01	-4.11	14593.820	3.0	84307.200	4.0
143.1773	18.01	-3.53	135085.920	1.5	204929.400	0.5	143.4488	27.02	-2.70	70934.100	2.5	140645.400	3.5
143.1789	26.02	-3.71	69837.760	2.0	139680.470	3.0	143.4491	28.01	-2.01	66579.710	1.5	136290.830	0.5
143.1803	27.02	-0.02	99043.500	1.5	168885.500	1.5	143.4527	26.02	-2.62	89783.590	4.0	159493.000	3.0
143.1852	26.02	-2.74	132079.910	3.0	201919.530	4.0	143.4527	26.01	-2.86	26352.800	4.5	96062.180	5.5
143.1879	29.02	-1.21	77967.600	2.5	147805.900	3.5	143.4531	15.00	-3.49	11360.800	1.5	81070.000	1.5
143.1885	24.03	-1.94	104265.000	2.5	174103.000	2.5	143.4537	28.01	-1.21	66579.710	1.5	136288.600	2.5
143.1897	25.01	-3.53	36427.890	0.0	106265.300	1.0	143.4569	28.01	-0.36	10115.660	2.5	79823.030	3.5
143.1916	18.01	-3.73	132630.650	1.5	202467.140	1.5	143.4652	27.02	-0.45	99182.200	0.5	168885.500	1.5
143.1926	26.02	-2.41	116467.410	4.0	186303.440	3.0	143.4654	23.01	-5.44	208.890	3.0	69912.100	4.0
143.1930	13.03	-1.16	168477.500	1.0	688313.300	2.0	143.4685	28.01	-1.87	67031.020	0.5	136732.740	1.5
143.1953	27.01	-4.83	10708.100	3.0	80542.800	3.0	143.4713	26.01	-3.53	2430.080	3.5	72130.440	4.5
143.2013	23.02	-4.24	16977.600	5.5	86809.390	5.5	143.4726	26.02	-2.54	118442.920	3.0	188142.640	2.0
143.2030	26.01	-4.93	13474.430	2.5	83305.370	3.5	143.4753	22.01	-5.07	907.960	1.5	70606.350	2.5
143.2070	27.02	-0.20	99182.200	0.5	169011.200	0.5	143.4763	29.01	-1.27	67916.390	1.0	137614.300	3.0
143.2090	26.02	-1.31	116475.440	3.0	186303.440	3.0	143.4783	27.01	-2.72	0.000	4.0	69696.970	3.0
143.2096	28.01	-4.97	68735.980	2.5	138563.710	3.5	143.4833	27.02	-4.73	77121.100	4.5	146815.600	3.5
143.2103	25.01	-3.98	31760.930	2.0	101588.300	3.0	143.4837	28.01	-1.94	67031.020	0.5	136725.330	0.5
143.2111	11.02	-4.81	444825.000	2.5	514652.000	2.5	143.4852	15.00	-4.22	11376.400	2.5	81070.000	1.5
143.2148	30.02	-1.11	78096.300	3.0	147921.500	2.0	143.4854	23.03	-0.07	147656.500	3.0	217350.000	3.0
143.2163	18.01	-2.78	149179.170	3.5	219003.600	2.5	143.4857	23.02	-2.29	85875.740	3.5	155569.100	2.5
143.2172	25.04	-0.56	177862.000	3.5	247686.000	3.5	143.4858	29.02	-0.72	126093.800	3.5	195787.100	3.5
143.2181	23.02	-3.94	86306.400	4.5	156130.000	4.5	143.4860	27.02	-2.36	103501.700	3.5	173194.900	2.5
143.2217	26.02	-2.86	113635.340	4.0	183457.150	4.0	143.4877	27.02	-3.95	55729.200	3.5	125421.600	4.5
143.2217	18.01	-2.04	132327.280	3.5	202149.110	2.5	143.4881	14.01	-2.64	83802.210	0.5	153494.400	0.5
143.2227	26.02	-2.94	113635.340	4.0	183456.690	3.0	143.4892	26.02	-1.58	113739.620	6.0	183431.280	5.0
143.2273	29.02	-0.19	123549.900	4.5	193369.000	4.5	143.4906	29.01	-0.00	69704.800	4.0	139395.800	4.0
143.2321	26.02	-4.18	116975.050	2.0	186791.780	2.0	143.4948	23.02	-2.23	89457.670	2.5	159146.600	2.5
143.2347	30.02	-3.17	238205.500	1.0	308021.000	2.0	143.4994	26.01	-1.57	2837.940	2.5	72524.620	1.5
143.2369	26.02	-2.77	117068.560	3.0	186882.980	3.0	143.4996	25.02	-4.28	63285.370	4.5	132971.990	3.5
143.2378	26.01	-3.56	2837.940	2.5	72651.910	3.5	143.5015	28.02	-1.98	63472.600	2.0	133158.300	3.0
143.2382	26.02	-1.60	119982.260	1.0	189796.030	1.0	143.5033	30.02	-2.63	238336.200	2.0	308021.000	2.0
143.2382	26.02	-1.77	116898.220	2.0	186712.020	1.0	143.5054	9.02	-3.52	390120.770	0.5	459804.550	1.5
143.2383	26.02	-2.38	69695.730	4.0	139509.440	5.0	143.5069	28.01	-2.65	51557.850	3.5	121240.900	3.5
143.2439	30.02	-2.61	235452.500	2.0	305263.500	2.0	143.5073	18.01	-2.80	132737.610	0.5	202420.490	0.5
143.2456	28.03	-0.06	121799.830	2.5	191610.010	1.5	143.5119	23.02	-3.13	88559.080	1.5	158239.700	2.5
143.2478	25.03	-4.63	178579.500	4.0	248388.600	3.0	143.5132	26.02	-5.46	19404.800	2.0	89084.790	3.0
143.2488	29.02	-1.70	125744.600	1.5	195553.200	2.5	143.5138	25.03	-2.52	120603.100	4.0	190282.800	3.0
143.2489	26.01	-2.68	2430.080	3.5	72238.630	2.5	143.5185	22.01	-7.02	1215.580	4.5	70893.000	3.5
143.2503	20.01	-0.86	13650.190	1.5	83458.080	2.5	143.5190	26.02	-3.24	66522.950	2.0	136200.130	3.0
143.2524	23.02	-3.53	85875.740	3.5	155682.600	3.5	143.5204	18.01	-1.91	134241.650	2.5	203918.150	1.5
143.2526	26.01	-5.59	8680.470	1.5	78487.250	1.5	143.5274	29.02	-2.18	124442.500	4.5	194115.600	3.5
143.2529	26.01	-3.63	22409.820	0.5	92216.420	1.5	143.5284	29.01	-0.50	71531.500	3.0	141204.100	3.0
143.2546	22.01	-6.69	1087.210	3.5	70893.000	3.5	143.5317	24.03	-2.03	104003.000	1.5	173674.000	1.5
143.2618	26.02	-1.10	119982.260	1.0	189784.520	2.0	143.5339	28.01	-2.48	51557.850	3.5	121227.800	2.5
143.2704	30.02	-3.76	235452.500	2.0	305250.600	3.0	143.5347	28.01	-2.94	25036.380	2.5	94705.930	3.5
143.2719	26.02	-4.87	50184.900	2.0	119982.260	1.0	143.5380	18.01	-2.48	132481.140	2.5	202149.110	2.5
143.2748	26.02	-2.26	113635.340	4.0	183431.280	5.0	143.5407	26.02	-2.59	118442.920	3.0	188109.580	3.0
143.2758	26.02	-3.09	89697.520	3.0	159493.000	3.0	143.5422	27.02	-0.41	98545.600	3.5	168211.500	4.5
143.2801	26.02	-2.68	116475.440	3.0	186268.790	2.0	143.5425	25.01	-3.44	39808.140	3.0	109473.900	4.0
143.2816	26.01	-3.54	22810.330	3.5	92602.940	3.5	143.5455	26.01	-4.78	23031.300	1.5	92695.620	2.5
143.2													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
143.6277	10.02	-3.86	319444.900	1.0	389069.370	2.0	143.9773	12.02	-1.40	479265.300	0.0	548720.700	1.0
143.6308	18.01	-2.58	132630.650	1.5	202253.590	1.5	143.9799	16.00	-5.59	9237.760	2.0	78691.890	1.0
143.6314	28.01	-4.36	68131.210	3.5	137753.870	4.5	143.9815	16.00	-3.67	9237.760	2.0	78691.140	3.0
143.6316	22.01	-5.96	983.800	2.5	70606.350	2.5	143.9824	16.00	-4.42	9237.760	2.0	78690.680	2.0
143.6319	28.02	-3.95	63472.600	2.0	133095.000	3.0	143.9838	23.02	-3.69	87218.920	3.5	156671.200	2.5
143.6325	22.01	-5.65	0.000	1.5	69622.150	2.5	143.9839	26.01	-3.75	22637.190	4.5	92089.410	3.5
143.6349	26.02	-4.78	131035.070	7.0	200656.020	6.0	143.9849	28.01	-4.75	66579.710	1.5	136031.430	2.5
143.6392	27.02	-3.01	56373.800	2.5	125992.700	2.5	143.9852	17.02	-3.47	147073.000	3.5	216524.600	2.5
143.6433	26.01	-5.00	22810.330	3.5	92427.220	4.5	143.9854	23.03	-4.21	147656.500	3.0	217108.000	2.0
143.6450	26.02	-1.32	120179.950	0.0	189796.030	1.0	143.9897	15.00	-4.62	11360.800	1.5	80810.200	1.5
143.6488	26.02	-3.95	90423.680	2.0	160037.900	2.0	143.9910	27.02	-3.46	70934.100	2.5	140382.900	3.5
143.6618	25.01	-4.43	14325.860	4.0	83933.770	3.0	143.9913	25.02	-3.81	68892.000	3.5	138340.620	2.5
143.6645	26.01	-8.79	0.000	4.5	69606.640	3.5	144.0036	27.02	-1.71	103690.800	.5	173133.500	1.5
143.6710	24.01	-3.50	21822.860	2.5	91426.310	2.5	144.0088	25.01	-6.81	9472.970	2.0	78913.170	2.0
143.6751	24.01	-2.94	21824.820	1.5	91426.310	2.5	144.0127	18.02	-3.59	156917.620	3.0	226355.960	2.0
143.6757	27.02	-2.20	103593.700	2.5	173194.900	2.5	144.0155	28.01	-2.34	52738.450	2.5	122175.420	2.5
143.6866	23.02	-1.63	88559.080	1.5	158155.000	1.5	144.0189	23.01	-7.05	208.890	3.0	69644.200	3.0
143.6926	25.04	-2.22	176937.000	1.5	246530.000	.5	144.0221	15.00	-3.43	11376.400	2.5	80810.200	1.5
143.6965	27.01	-5.96	10708.100	3.0	80299.200	4.0	144.0248	27.02	-2.77	77383.100	3.5	146815.600	3.5
143.6974	29.02	-1.45	67016.600	3.5	136607.300	2.5	144.0273	18.02	-2.33	156924.680	2.0	226355.960	2.0
143.6978	16.00	-6.61	573.190	0.0	70163.700	1.0	144.0314	25.03	-1.46	120603.100	4.0	190032.400	4.0
143.7050	27.02	-2.60	56794.800	1.5	126381.800	1.5	144.0387	17.03	-4.07	182300.000	0.0	251725.800	1.0
143.7060	25.01	-2.59	14325.860	4.0	83912.380	5.0	144.0429	26.02	-2.09	82333.920	3.0	151757.670	2.0
143.7079	18.02	-1.95	156917.620	3.0	226503.220	3.0	144.0438	26.02	-2.41	118686.250	4.0	188109.580	3.0
143.7088	26.02	-2.23	89907.850	4.0	159493.000	3.0	144.0485	26.02	-1.68	118721.600	2.0	188142.640	2.0
143.7116	28.02	-1.17	111898.500	4.0	181482.300	4.0	144.0493	25.02	-4.97	68892.000	3.5	138312.700	4.5
143.7121	28.01	-3.96	67694.640	2.5	137278.220	1.5	144.0518	26.01	-1.47	22939.350	2.5	32358.800	1.5
143.7128	25.01	-1.41	38542.960	3.0	108126.200	3.0	144.0569	26.04	-4.41	187725.000	4.0	257142.000	5.0
143.7225	18.02	-3.82	156924.680	2.0	226503.220	3.0	144.0642	25.02	-3.85	68899.200	4.5	138312.700	4.5
143.7276	28.01	-4.16	68131.210	3.5	137707.260	3.5	144.0713	26.02	-2.96	118721.600	2.0	188131.700	1.0
143.7288	28.01	-3.98	68131.210	3.5	137706.710	2.5	144.0725	25.02	-4.79	43668.840	2.5	113078.340	1.5
143.7294	30.02	-3.84	147498.600	1.0	217073.800	2.0	144.0735	24.03	-1.45	104265.000	2.5	173674.000	1.5
143.7331	28.02	-4.17	71841.900	1.0	141415.300	1.0	144.0774	26.01	-2.24	3117.480	1.5	72524.620	1.5
143.7341	33.01	-6.48	339.210	4.0	69912.100	4.0	144.0786	28.01	-3.08	52738.450	2.5	122144.990	2.5
143.7391	26.02	-6.67	118442.920	3.0	188013.400	4.0	144.0798	23.02	-4.17	86938.010	2.5	156344.000	1.5
143.7414	17.02	-3.72	29905.600	1.5	99475.000	.5	144.0814	26.02	-9.92	116898.220	2.0	186303.460	3.0
143.7451	27.02	-4.78	77383.100	3.5	146950.700	2.5	144.0847	25.02	-4.86	43674.700	1.5	113078.340	1.5
143.7455	27.02	-3.36	71623.100	6.5	141190.500	5.5	144.0866	30.02	-4.72	230606.000	0.0	300008.760	1.0
143.7484	25.04	-4.40	177314.000	2.5	246880.000	2.5	144.0872	26.02	-4.82	50295.200	3.0	119697.640	2.0
143.7647	29.02	-3.38	124557.500	3.5	194115.600	3.5	144.0908	26.01	-4.90	2837.940	2.5	72238.630	2.5
143.7725	26.02	-3.47	90483.590	3.0	160037.900	2.0	144.0955	17.03	-1.22	182073.000	1.0	251471.400	0.0
143.7753	29.02	-4.01	126891.900	2.5	196444.900	1.5	144.0991	30.02	-4.59	147498.600	1.0	216895.300	1.0
143.7808	28.02	-2.54	62606.300	3.0	132156.600	3.0	144.0991	22.01	-3.51	225.470	3.5	69622.150	2.5
143.7823	25.01	-3.99	14325.860	4.0	83875.460	4.0	144.1114	26.01	-1.11	22939.350	2.5	92330.100	2.5
143.7839	9.01	-2.38	227228.420	1.0	296777.250	2.0	144.1172	26.02	-8.86	118721.600	2.0	188109.580	3.0
143.7845	26.02	-2.72	130256.270	5.0	199804.810	4.0	144.1188	10.01	-3.05	224699.270	.5	294086.490	1.5
143.8025	27.02	-3.70	103593.700	2.5	173133.500	1.5	144.1215	23.03	-2.46	153918.700	3.0	223304.600	4.0
143.8038	27.02	-2.47	103655.700	1.5	173194.900	2.5	144.1367	26.02	-4.83	122628.340	2.0	192006.940	2.0
143.8072	23.01	-6.14	106.630	2.0	69644.200	3.0	144.1379	26.01	-6.58	23317.600	2.5	92695.620	2.5
143.8126	26.02	-2.93	82001.730	2.0	151536.680	1.0	144.1417	23.02	-2.19	86306.400	4.5	155682.600	3.5
143.8130	26.01	-7.72	22637.190	4.5	92171.950	4.5	144.1444	23.02	-1.73	91710.430	3.5	161085.300	4.5
143.8130	26.01	-3.23	2430.080	3.5	71964.810	2.5	144.1464	30.02	-1.23	145966.600	3.0	215340.500	2.0
143.8163	26.02	-2.30	82001.730	2.0	151534.900	2.0	144.1477	28.01	-3.40	70635.460	2.5	140008.760	3.5
143.8166	14.01	-2.28	84004.520	1.5	153537.500	1.5	144.1482	28.01	-4.46	66571.340	2.5	135944.400	3.5
143.8176	28.02	-4.56	71383.700	2.0	140916.200	2.0	144.1520	26.02	-2.70	132659.170	4.0	202030.780	3.0
143.8178	26.02	-2.03	82001.730	2.0	151534.900	2.0	144.1533	26.02	-1.48	116898.220	2.0	186268.390	2.0
143.8195	28.01	-1.97	52738.450	2.5	122270.050	3.5	144.1606	27.01	-5.48	13261.100	2.0	82628.200	3.0
143.8236	26.01	-3.04	22637.190	4.5	92166.810	5.5	144.1610	25.01	-4.49	14901.180	1.0	84268.060	1.0
143.8261	23.03	-1.52	146429.300	2.0	215957.700	3.0	144.1676	25.03	-1.11	130969.500	3.0	200333.200	3.0
143.8265	22.01	-5.81	93.940	2.5	69622.150	2.5	144.1719	26.01	-1.67	22810.330	3.5	92171.950	4.5
143.8305	26.02	-3.81	66591.680	1.0	136117.940	2.0	144.1731	26.02	-1.79	117521.910	4.0	186882.980	3.0
143.8311	26.02	-3.52	66464.640	3.0	135990.620	4.0	144.1811	13.03	-1.12	618477.500	1.0	687834.700	2.0
143.8440	26.01	-1.30	22810.330	3.5	92330.100	2.5	144.1836	13.03	-1.05	690244.900	0.0	759600.900	1.0
143.8453	22.01	-7.96	1087.210	3.5	70606.350	2.5	144.1836	13.03	-1.05	690244.900	0.0	759600.900	1.0
143.8467	18.01	-3.31	132630.650	1.5	202149.110	2.5	144.1861	26.02	-3.05	132564.710	5.0	201919.530	4.0
143.8518	18.01	-3.33	132737.610	.5	202253.590	1.5	144.1943	26.01	-6.93	8391.920	2.5	77742.780	2.5
143.8554	26.01	-6.41	2837.940	2.5	72352.170	3.5	144.1995	24.01	-7.72	0.000	2.5	69348.360	1.5
143.8585	26.02	-4.24	50184.900	2.0	119697.640	2.0	144.2009	28.02	-2.13	113705.000	4.0	183052.700	4.0
143.8721	24.01	-6.70	0.000	2.5	69506.160	3.5	144.2037	28.01	-3.04	52738.450	2.5	122084.790	1.5
143.8795	30.02	-2.21	147571.200	1.0	217073.800	2.0	144.2047	25.02	-2.13	68899.200	4.5	138245.090	5.5
143.8805	26.01	-3.35	3117.480	1.5	72619.610	2.5	144.2050	28.02	-2.52	63472.600	2.0	132818.300	2.0
143.8818	28.02	-3.45	71383.700	2.0	140885.200	1.0	144.2065	27.02	-2.73	57036.800	.5	126381.800	1.5
143.8827	23.02	-2.91	16374.700	2.5	58575.740	3.5	144.2098	26.01	-1.59	22939.350	2.5	92282.760	3.5
143.8883	28.01	-2.69	58493.210	2.5	127991.560	3.5	144.2100	27.02	-3.85	77472.300	2.5	146815.600	3.5
143.8894	27.02	-4.01	55729.200	3.5	125227.000	3.5	144.2132	28.01	-4.29	52738.450	2.5	122060.250	2.5
143.8942	23.02	-5.17	16810.900	4.5	86306.400	4.5	144.2139	29.01	-2.44	66418.520	2.0	135759.970	2.0
143.8971	10.01	-2.54	249445.990	2.5	318940.080	1.5	144.2170	25.01	-3.70	14593.820	3.0	83933.770	3.0
143.9058	14.01	-2.99	84004.520	1.5	153494								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
144.2863	26.01	-2.96	22810.330	3.5	92116.980	4.5	144.6184	10.01	-1.62	249108.640	3.5	318256.130	2.5
144.2898	23.01	-8.81	339.210	4.0	69644.200	3.0	144.6194	27.02	-1.55	103655.700	1.5	172802.700	2.5
144.2981	27.02	-3.68	103501.700	3.5	172802.700	2.5	144.6247	24.02	-2.00	43321.700	3.0	112466.200	3.0
144.3026	26.01	-1.73	23031.300	1.5	92330.100	2.5	144.6257	12.02	-3.02	426868.100	1.0	496012.100	0.0
144.3031	26.02	-3.35	63486.780	4.0	132785.360	4.0	144.6290	26.02	-4.50	82494.880	1.0	151637.300	1.0
144.3074	28.01	-1.42	67031.020	.5	136327.550	1.5	144.6395	27.01	-5.63	11651.310	2.0	80788.700	2.0
144.3099	23.02	-1.64	88944.380	2.5	158239.700	2.5	144.6421	23.02	-3.88	86716.840	1.5	155853.000	2.5
144.3132	26.02	-3.83	116975.050	2.0	186268.790	2.0	144.6463	26.02	-1.66	132785.360	4.0	201919.530	4.0
144.3174	27.02	-3.45	70934.100	2.5	140225.800	3.5	144.6474	26.02	-3.05	113677.010	5.0	182810.660	5.0
144.3181	26.02	-3.66	63494.000	3.0	132785.360	4.0	144.6484	26.02	-1.91	70694.030	5.0	139827.170	4.0
144.3189	26.02	-3.84	49576.900	1.0	118867.870	1.0	144.6563	23.01	-3.24	31662.800	5.0	72292.200	4.0
144.3204	14.01	-4.51	55325.440	2.5	124615.700	1.5	144.6581	28.01	-1.78	1506.940	1.5	70635.460	2.5
144.3307	26.02	-3.98	50412.300	2.0	119697.640	2.0	144.6584	24.01	-8.40	12303.980	3.5	81432.360	3.5
144.3307	26.01	-8.27	23317.600	2.5	92602.940	3.5	144.6601	26.02	-3.42	130756.840	6.0	199884.390	5.0
144.3327	24.01	-9.40	12148.000	2.5	81432.360	3.5	144.6615	26.01	-4.32	2837.940	2.5	71964.810	2.5
144.3351	27.02	-3.19	55729.200	3.5	125012.400	4.5	144.6631	6.00	-6.95	10192.630	2.0	79318.780	1.0
144.3384	25.01	-3.38	14593.820	3.0	83875.460	4.0	144.6634	25.04	.13	178560.000	4.5	247686.000	3.5
144.3437	26.01	-2.77	22810.330	3.5	92089.410	3.5	144.6672	14.01	-3.60	55325.440	2.5	124449.600	3.5
144.3448	28.01	-3.65	68735.980	2.5	138014.530	2.5	144.6677	28.01	-3.86	68154.310	1.5	137278.220	1.5
144.3479	26.01	-5.17	22939.350	2.5	92216.420	1.5	144.6735	26.01	-4.39	3117.480	1.5	72238.630	2.5
144.3527	26.02	-1.26	118867.870	1.0	188142.640	2.0	144.6751	29.02	-3.09	68963.600	2.5	138084.000	2.5
144.3532	26.01	-8.81	18360.650	1.5	87635.200	.5	144.6751	28.02	-3.38	111898.500	4.0	181018.900	5.0
144.3537	29.01	-1.16	69867.810	2.0	139142.100	2.0	144.6753	25.03	-9.99	131170.100	4.0	200290.400	4.0
144.3552	22.02	-3.03	8472.600	2.0	77746.180	3.0	144.6777	28.01	-9.96	52205.950	3.5	121325.090	2.5
144.3707	28.01	-2.19	67694.640	2.5	136960.750	2.5	144.6797	6.00	-4.53	10192.630	2.0	79310.850	2.0
144.3726	28.01	-4.69	67694.640	2.5	136959.860	2.5	144.6816	30.02	-3.93	234384.000	3.0	303501.300	2.0
144.3737	12.02	-6.68	479456.000	1.0	548720.700	1.0	144.6879	23.03	-2.46	153918.700	3.0	223033.000	3.0
144.3751	27.02	-3.84	72083.300	4.5	141347.300	4.5	144.6896	29.01	-2.09	59867.810	2.0	138981.300	2.0
144.3755	26.02	-1.47	118867.870	1.0	188131.700	1.0	144.6904	30.02	-1.91	145243.900	2.0	214357.000	1.0
144.3827	26.02	-3.23	132659.170	4.0	201919.530	4.0	144.6918	26.02	-1.02	113739.620	6.0	182852.050	7.0
144.3839	28.01	-1.28	67031.020	.5	136290.830	.5	144.6925	24.02	-2.03	43286.400	4.0	112398.500	4.0
144.3878	26.02	-3.07	11697.640	2.0	188955.560	3.0	144.7008	26.02	-4.37	122898.840	2.0	192006.940	2.0
144.4008	29.01	-2.89	69867.810	2.0	139119.500	3.0	144.7030	26.02	-3.54	132785.360	4.0	201892.440	5.0
144.4056	25.03	-9.74	119961.500	3.0	189210.900	4.0	144.7108	18.01	-3.93	134241.650	2.5	203344.980	1.5
144.4109	26.02	-2.94	130756.840	6.0	200003.700	7.0	144.7128	23.03	-1.41	146855.100	3.0	215957.700	3.0
144.4130	29.01	-3.36	66418.520	2.0	135664.340	1.0	144.7133	26.02	-5.00	70725.010	3.0	139827.170	4.0
144.4147	26.02	-2.56	132785.360	4.0	202030.380	3.0	144.7169	10.01	-3.77	249839.630	.5	318940.080	1.5
144.4154	25.02	-4.65	62456.990	.5	131701.690	1.5	144.7200	26.02	-3.10	120697.100	1.0	189796.030	1.0
144.4157	10.01	-2.91	249695.530	1.5	318940.080	1.5	144.7211	26.02	-3.64	70728.750	4.0	139827.170	4.0
144.4206	28.01	-4.41	67694.640	2.5	136936.820	3.5	144.7213	26.02	-3.88	63466.390	5.0	132564.710	5.0
144.4209	14.01	-4.14	55325.440	2.5	124567.500	2.5	144.7264	12.02	-6.65	477435.700	2.0	546531.600	1.0
144.4215	28.01	-2.77	1506.940	1.5	70748.700	.5	144.7270	26.01	-2.58	3117.480	1.5	72213.100	.5
144.4222	26.02	-2.01	118867.870	1.0	188109.320	0.0	144.7364	26.02	-2.92	113739.620	6.0	182830.760	6.0
144.4225	9.02	-4.57	349007.250	2.5	418248.560	1.5	144.7429	10.04	-2.16	640868.000	2.0	709956.000	3.0
144.4226	26.01	-8.10	18360.650	1.5	87601.900	1.5	144.7442	26.02	-2.84	120697.100	1.0	189784.520	2.0
144.4232	26.02	-3.85	66464.640	3.0	135705.570	3.0	144.7469	13.03	-9.09	616646.700	2.0	685732.800	2.0
144.4359	26.02	-1.67	117068.560	3.0	186303.440	3.0	144.7480	26.02	-4.49	122921.370	1.0	192006.940	2.0
144.4390	22.01	-3.67	93.940	2.5	69327.320	1.5	144.7494	24.01	-9.46	12148.000	2.5	81232.910	2.5
144.4417	28.03	-6.34	122377.910	1.5	191610.010	1.5	144.7497	23.02	-2.86	86716.840	1.5	155801.600	1.5
144.4434	28.01	-4.43	32523.540	3.5	101754.800	2.5	144.7499	15.00	-1.57	11376.400	2.5	80461.100	3.5
144.4447	28.01	-4.43	70778.120	3.5	140008.760	3.5	144.7557	27.02	-3.31	103501.700	3.5	172583.600	3.5
144.4501	28.01	-2.67	70778.120	3.5	140008.760	3.5	144.7557	27.02	-3.31	103501.700	3.5	172583.600	3.5
144.4536	26.02	-3.81	82410.940	2.0	151637.300	1.0	144.7557	27.02	-2.10	103501.700	3.5	172583.600	3.5
144.4577	17.02	-3.42	29905.600	1.5	99130.000	1.5	144.7649	11.02	-7.79	373633.000	1.5	442710.500	1.5
144.4578	25.01	-6.51	41204.340	5.0	110428.700	4.0	144.7664	24.02	-2.69	43321.700	3.0	112398.500	4.0
144.4630	26.01	-7.80	384.770	3.5	69608.640	3.5	144.7664	27.02	-3.69	72270.500	3.5	141347.300	4.5
144.4642	27.01	-6.20	11321.500	2.0	80542.800	3.0	144.7716	28.02	-4.20	71841.900	1.0	140916.200	2.0
144.4826	17.02	-2.72	147497.900	4.5	216710.400	3.5	144.7768	28.01	-3.47	67694.640	2.5	136766.490	2.5
144.4854	26.01	-8.00	18360.650	1.5	87571.800	2.5	144.7821	26.02	-3.44	90423.680	2.0	159493.000	3.0
144.4865	23.02	-9.90	88944.380	2.5	158155.000	1.5	144.7821	9.02	-4.77	389525.550	1.5	458594.860	2.5
144.4899	27.02	-3.58	103593.700	2.5	172802.700	2.5	144.7867	24.02	-2.05	43304.100	2.0	112371.200	2.0
144.4961	25.04	-5.50	176937.000	1.5	246143.000	1.5	144.7903	15.00	-2.84	11360.800	1.5	80426.200	1.5
144.4977	26.01	-2.72	2837.940	2.5	72043.210	1.5	144.7915	23.02	-5.38	16810.900	4.5	85875.740	3.5
144.4989	28.01	-2.51	67694.640	2.5	136999.330	1.5	144.7968	26.01	-8.75	8680.470	1.5	77742.780	2.5
144.5006	26.02	-1.48	82333.920	3.0	151537.800	4.0	144.8010	15.04	.43	345398.400	1.5	414458.700	2.5
144.5013	25.01	-5.73	14325.860	4.0	83529.400	4.0	144.8025	27.01	-5.58	0.000	4.0	69059.590	3.0
144.5066	26.02	-3.19	82333.920	3.0	151534.900	2.0	144.8066	28.01	-4.17	68154.310	1.5	137211.930	.5
144.5082	26.02	-3.00	117068.560	3.0	186268.790	2.0	144.8100	25.02	-3.71	110172.690	1.5	179228.690	1.5
144.5082	26.02	-2.22	82333.920	3.0	151534.130	3.0	144.8113	15.04	.59	345403.300	2.5	414458.700	3.5
144.5083	24.01	-9.70	12032.720	1.5	81232.910	2.5	144.8113	15.04	-.71	345403.300	2.5	414458.700	2.5
144.5090	28.01	-2.06	1506.940	1.5	70706.770	1.5	144.8190	28.01	-5.36	29070.930	1.5	98122.630	.5
144.5131	27.02	-2.80	56794.800	1.5	125992.700	2.5	144.8191	26.01	-3.77	3117.480	1.5	72169.150	1.5
144.5151	27.02	-1.56	103386.700	4.5	172583.600	3.5	144.8227	18.02	-1.53	174375.000	2.0	243424.970	3.0
144.5151	27.02	-1.56	103386.700	4.5	172583.600	3.5	144.8230	15.00	-2.47	11376.400	2.5	80426.200	1.5
144.5151	27.02	-3.01	103386.700	4.5	172583.600	3.5	144.8231	25.01	-5.50	14325.860	4.0	83375.600	3.0
144.5222	23.02	-2.69	16330.500	1.5	85524.000	2.5	144.8236	24.02	-2.64	43321.700	3.0	112371.200	2.0
144.5237	26.02	-4.37	63466.390	5.0	132659.170	4.0	144.8305	23.02	-2.25	89193.470	1.5	158239.700	2.5
144.5242	25.02	-3.37	110036.140	.5</									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
144.9479	27.02	-4.73	103386.700	4.5	172377.000	3.5
144.9488	27.02	-3.14	103593.700	2.5	172583.600	3.5
144.9488	27.02	-3.14	103593.700	2.5	172583.600	3.5
144.9488	27.02	-2.69	103593.700	2.5	172583.600	3.5
144.9546	30.02	-3.42	211725.500	2.0	280712.600	3.0
144.9679	23.03	-4.56	148369.200	4.0	217350.300	3.0
144.9710	13.03	-2.20	618477.500	1.0	687456.800	1.0
144.9826	30.02	-2.39	147921.500	2.0	216895.300	1.0
144.9845	28.02	-3.32	61339.200	4.0	130312.100	4.0
144.9864	25.02	-2.81	110711.620	3.5	179683.610	4.5
144.9893	25.02	-5.22	43674.700	1.5	112645.310	1.5
144.9907	9.02	-3.20	390834.600	2.5	459804.550	1.5
144.9909	26.02	-2.22	120826.170	2.0	189796.030	1.0
144.9920	18.01	-2.56	143107.600	2.5	212076.900	2.5
144.9935	26.02	-3.13	131035.070	7.0	200003.700	7.0
144.9997	28.01	-1.84	0.000	2.5	68965.650	1.5
145.0008	26.01	-5.02	23317.600	2.5	92282.760	3.5
145.0010	23.02	-1.84	92052.550	4.5	161017.600	3.5
145.0017	26.01	-5.64	27314.930	3.5	96279.650	2.5
145.0028	18.01	-1.26	143107.600	2.5	212071.800	3.5
145.0051	29.02	-4.56	128435.300	1.5	197398.400	2.5
145.0084	23.02	-1.41	89193.470	1.5	158155.000	1.5
145.0104	28.01	-1.57	52738.450	2.5	121699.020	1.5
145.0151	26.02	-3.17	120826.170	2.0	189784.520	2.0
145.0164	29.02	-4.36	126829.400	3.5	195787.100	3.5
145.0211	26.02	-3.61	70725.010	3.0	139680.470	3.0
145.0281	18.01	-4.72	142717.020	3.5	211669.180	2.5
145.0290	26.02	-3.48	70728.750	4.0	139680.470	3.0
145.0293	22.02	-3.02	8472.600	2.0	77424.200	3.0
145.0298	29.01	-4.51	69867.810	2.0	138819.170	3.0
145.0309	25.03	-4.64	120603.100	4.0	189553.900	5.0
145.0350	22.02	-1.80	8472.600	2.0	77421.480	2.0
145.0379	15.00	-4.33	11360.800	1.5	80308.300	2.5
145.0400	18.01	-2.19	142717.020	3.5	211663.500	3.5
145.0404	26.02	-1.28	89783.590	4.0	158729.890	3.0
145.0427	26.02	-3.55	131710.790	5.0	200656.020	6.0
145.0444	26.02	-4.85	69747.400	0.0	138691.810	1.0
145.0450	27.02	-7.97	37021.000	3.5	105965.100	2.5
145.0478	28.02	-2.42	114109.900	3.0	183052.700	4.0
145.0514	25.02	-2.94	110398.500	2.5	179339.590	2.5
145.0552	26.02	-2.58	131445.030	2.0	200384.280	3.0
145.0558	26.01	-7.53	667.640	2.5	69606.640	3.5
145.0564	15.00	-1.63	11360.800	1.5	80299.500	1.5
145.0630	24.01	-8.29	12496.790	4.5	81432.360	3.5
145.0630	25.01	-6.39	14593.820	3.0	83529.400	4.0
145.0684	26.02	-4.97	117521.910	4.0	186454.890	5.0
145.0707	15.00	-1.60	11376.400	2.5	80308.300	2.5
145.0723	26.02	-3.20	70694.030	5.0	139625.170	4.0
145.0741	28.01	-2.73	68781.620	5	137211.930	5
145.0770	24.01	-8.75	12303.980	3.5	81232.910	2.5
145.0821	29.02	-3.05	124442.500	4.5	193369.000	4.5
145.0837	26.01	-3.53	3117.480	1.5	72043.210	1.5
145.0870	26.01	-3.19	27314.930	3.5	96239.100	4.5
145.0892	15.00	-2.17	11376.400	2.5	80299.500	1.5
145.1031	23.03	-4.18	151427.000	1.0	220343.500	1.0
145.1063	23.02	-2.78	86938.010	2.5	155853.000	2.5
145.1139	30.02	-4.34	145966.600	3.0	214878.000	3.0
145.1145	23.02	-2.56	87218.920	3.5	156130.000	4.5
145.1276	28.01	-4.41	53365.170	4.5	122270.050	3.5
145.1303	26.02	-4.53	69788.190	1.0	138691.810	1.0
145.1332	26.02	-1.85	113584.200	2.0	182486.400	1.0
145.1335	25.01	-4.97	37847.900	2.0	106750.000	2.0
145.1366	28.03	-1.12	122709.410	5	191610.010	1.5
145.1375	26.02	-3.37	70725.010	3.0	139625.170	4.0
145.1403	25.01	-4.81	37851.150	3.0	106750.000	2.0
145.1404	26.01	-7.35	23317.600	2.5	92216.420	1.5
145.1452	26.02	-1.70	113584.200	2.0	182480.720	2.0
145.1480	29.02	-4.48	126891.900	2.5	195787.100	3.5
145.1490	28.01	-2.57	67694.640	2.5	136589.350	3.5
145.1497	23.03	-4.62	151449.100	0.0	220343.500	1.0
145.1558	27.01	-6.81	11651.310	2.0	80942.800	3.0
145.1601	18.01	-1.91	142717.020	3.5	211666.470	3.5
145.1703	27.02	-2.95	70934.100	2.5	139818.700	3.5
145.1712	9.02	-2.48	391257.420	2.5	460141.630	2.5
145.1752	22.03	36	127912.500	5	196794.800	1.5
145.1876	18.01	-4.79	142717.020	3.5	211593.440	4.5
145.1887	23.03	-2.51	153918.700	3.0	222794.600	2.0
145.1898	26.02	-3.81	113605.370	3.0	182480.720	2.0
145.1899	27.02	-4.66	103501.700	3.5	172377.000	3.5
145.1946	29.02	-4.84	78779.400	1.5	147652.500	5
145.1990	25.02	-1.87	113078.340	1.5	181949.340	2.5
145.1991	26.02	-3.45	131035.070	7.0	199906.030	6.0
145.2030	18.01	-3.04	142717.020	3.5	211586.110	2.5
145.2073	9.02	-2.70	389525.550	1.5	458392.610	1.5
145.2113	26.02	-4.24	86997.520	3.0	158562.700	4.0
145.2146	23.02	-2.87	86938.010	2.5	155801.600	1.5
145.2211	26.02	-4.97	113584.200	2.0	182444.700	3.0
145.2285	26.02	-1.24	117521.910	4.0	186378.940	4.0
145.2289	29.01	-1.28	67916.390	1.0	136773.200	1.0
145.2303	25.01	-4.92	37851.150	3.0	106707.300	4.0
145.2307	18.01	-3.43	150147.620	2.5	219003.600	2.5
145.2345	18.01	-2.93	150147.620	2.5	219001.800	1.5
145.2347	26.02	-4.05	69837.760	2.0	138691.810	1.0
145.2365	27.02	-3.49	56373.800	2.5	125227.000	3.5
145.2372	26.02	-2.92	120826.170	2.0	189679.070	3.0
145.2385	23.02	-2.56	86716.840	1.5	155569.100	2.5
145.2445	15.00	-2.90	11360.800	1.5	80210.200	5
145.2489	26.01	-5.51	3117.480	1.5	71964.810	2.5
145.2544	28.01	-1.42	52205.950	3.5	121050.660	2.5
145.2559	15.00	-1.96	11360.800	1.5	80204.800	1.5
145.2564	27.01	-1.58	0.000	4.0	68843.800	4.0
145.2570	24.01	-5.57	0.000	2.5	68843.510	3.5
145.2658	26.02	-2.58	113605.370	3.0	182444.700	3.0
145.2678	23.01	-5.31	106.630	2.0	68945.110	3.0
145.2692	29.01	-2.70	67916.390	1.0	136754.110	2.0
145.2697	26.02	-3.82	63425.170	6.0	132262.660	6.0
145.2808	18.01	-2.21	135085.920	1.5	203918.150	1.5
145.2851	25.02	-3.47	110398.500	2.5	179228.690	1.5
145.2851	25.02	-4.94	62456.990	5	131287.180	5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
145.2876	25.04	-3.35	177314.000	2.5	246143.000	1.5
145.2889	15.00	-7.9	11376.400	2.5	80204.800	1.5
145.2889	15.01	-7.7	8882.600	2.0	77711.000	2.0
145.2899	25.03	-2.23	131462.500	5.0	200290.400	4.0
145.2967	26.02	-2.12	113584.200	2.0	182408.910	3.0
145.3013	23.03	-1.07	147135.200	2.0	215957.700	2.0
145.3020	23.02	-4.62	89417.500	3.5	158239.700	3.5
145.3020	15.00	-1.30	11360.800	1.5	80183.000	2.5
145.3023	26.02	-2.92	89907.850	4.0	158729.890	3.0
145.3106	29.01	-7.75	72724.000	2.0	141542.100	2.0
145.3161	26.02	-1.34	203373.220	0.0	272188.700	1.0
145.3163	20.02	-3.32	70694.030	5.0	139509.440	5.0
145.3207	26.02	-2.26	113605.370	3.0	182418.700	4.0
145.3231	15.00	-3.57	11360.800	1.5	80173.000	5
145.3245	29.02	-2.02	124557.500	3.5	193369.000	4.5
145.3262	9.02	-2.50	389525.550	1.5	458336.270	5
145.3274	10.01	-2.34	249445.990	2.5	318256.130	2.5
145.3291	26.02	-2.25	113635.340	4.0	182444.700	3.0
145.3312	26.02	-2.61	113584.200	2.0	182392.550	2.0
145.3335	26.02	-4.37	113605.370	3.0	182412.650	4.0
145.3349	15.00	-2.66	11376.400	2.5	80183.000	2.5
145.3352	28.01	-1.77	68154.310	1.5	136960.750	2.5
145.3371	28.01	-3.37	68154.310	1.5	136959.860	2.5
145.3414	26.02	-1.83	113605.370	3.0	182408.910	3.0
145.3425	26.02	-4.90	20688.400	1.0	89491.390	1.0
145.3468	28.01	-3.33	68154.310	1.5	136955.280	5
145.3531	24.03	-2.48	164920.000	3.5	233718.000	4.5
145.3541	28.02	-2.24	86646.200	2.0	155443.700	2.0
145.3562	24.02	-4.95	49626.800	2.0	118423.300	2.0
145.3600	25.03	-2.47	119961.500	3.0	188756.200	3.0
145.3624	38.01	-2.78	0.000	0.0	68793.581	0.0
145.3692	23.02	-1.98	87880.850	2.5	156671.200	2.5
145.3744	26.01	-7.74	862.630	1.5	69650.540	2.5
145.3759	26.02	-1.91	113605.370	3.0	182392.550	2.0
145.3798	28.01	-4.92	70706.770	1.5	139492.100	2.5
145.3833	12.03	-2.69	612240.300	1.5	681024.000	5
145.3840	26.02	-1.94	113635.340	4.0	182418.700	4.0
145.3841	27.02	-1.31	103593.700	2.5	172377.000	3.5
145.3868	23.02	-1.46	89457.670	2.5	158239.700	2.5
145.3873	25.01	-5.56	14593.820	3.0	83375.600	3.0</

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
145.5625	26.04	.24	195212.000	2.0	263911.000	3.0	145.8281	26.02	-4.88	66522.950	2.0	135096.840	3.0
145.5655	27.02	-3.01	103245.000	5.5	171942.600	4.5	145.8282	25.01	-5.38	29889.310	3.0	98463.160	3.0
145.5659	29.01	-1.39	69704.800	4.0	138402.200	3.0	145.8299	25.01	-6.40	29889.310	3.0	98462.340	2.0
145.5661	23.02	-2.04	89457.670	2.5	158155.000	1.5	145.8317	25.02	-2.17	111111.390	4.5	179883.610	4.5
145.5662	28.01	-1.70	52205.950	3.5	120903.200	3.5	145.8342	28.01	-1.73	68154.310	1.5	136725.330	.5
145.5676	26.02	-.88	116364.760	0.0	185061.350	1.0	145.8415	24.02	-2.31	43286.400	4.0	111854.000	5.0
145.5721	29.02	-.30	128679.400	2.5	197373.900	3.5	145.8478	26.01	-5.01	862.630	1.5	69427.270	.5
145.5730	22.02	-2.57	8472.600	2.0	77166.650	2.0	145.8485	10.01	-4.16	224087.020	1.5	292651.320	1.5
145.5750	27.02	-4.73	70934.100	2.5	139627.200	1.5	145.8531	25.01	-3.93	17811.570	1.0	106373.700	2.0
145.5790	26.02	-3.06	82846.590	4.0	151537.800	4.0	145.8532	27.02	-2.66	32083.300	4.5	140645.400	3.5
145.5793	23.01	-4.77	106.630	2.0	68797.700	2.0	145.8543	18.01	-3.56	143107.600	2.5	211669.180	2.5
145.5868	26.02	-3.78	82846.590	4.0	151534.130	3.0	145.8564	10.01	-3.35	249695.530	1.5	318256.130	2.5
145.5872	26.02	-4.76	66591.680	1.0	135279.040	2.0	145.8602	23.02	-2.32	86938.010	2.5	155496.800	1.5
145.5901	26.02	-3.76	73849.100	1.0	142535.070	2.0	145.8664	18.01	-.98	143107.600	2.5	211663.500	3.5
145.5911	18.01	-.68	150474.900	1.5	219160.400	2.5	145.8668	26.02	-1.19	118442.920	3.0	186998.600	4.0
145.5932	26.02	-4.35	131710.790	5.0	200395.330	5.0	145.8810	25.04	-.91	176937.000	1.5	245486.000	2.5
145.5950	24.02	-2.22	70291.800	2.0	138975.500	3.0	145.8811	18.02	-2.26	174375.000	2.0	242923.960	1.0
145.6001	26.02	-.66	116380.070	1.0	185061.350	1.0	145.8822	26.02	-2.50	118163.560	2.0	186712.020	1.0
145.6072	25.01	-3.93	37847.900	2.0	106525.800	3.0	145.8850	9.02	-1.25	391257.420	2.5	459804.550	1.5
145.6074	26.02	-3.43	97041.380	3.0	165719.200	4.0	145.8853	28.02	-.56	112935.300	3.0	181482.300	4.0
145.6141	25.01	-4.06	37851.150	3.0	106525.800	3.0	145.8890	26.02	-2.18	118246.520	3.0	186791.780	2.0
145.6200	26.02	-3.96	93412.930	2.0	162084.800	2.0	145.8902	25.02	-1.19	68892.000	3.5	137436.700	4.5
145.6234	26.02	-2.64	121008.780	3.0	189679.070	3.0	145.8918	25.01	-5.06	29919.220	2.0	98463.160	3.0
145.6240	26.04	.14	186736.000	2.0	255406.000	3.0	145.8936	26.02	-2.86	77075.300	1.0	145618.390	2.0
145.6282	24.03	-2.12	165440.000	4.5	234108.000	5.5	145.8936	25.01	-5.44	29919.220	2.0	98462.340	2.0
145.6380	14.02	-4.44	165765.000	2.0	234428.400	1.0	145.8948	25.01	-6.44	29919.220	2.0	98461.760	1.0
145.6410	25.01	-5.81	14593.820	3.0	83255.800	2.0	145.8954	28.01	-3.54	68735.980	2.5	137278.220	1.5
145.6418	26.02	-3.23	76956.790	3.0	145618.390	2.0	145.8985	28.01	-1.48	53634.620	1.5	122175.420	2.5
145.6425	29.02	-1.82	126891.900	2.5	195553.200	2.5	145.9031	6.00	-2.92	10192.630	2.0	78731.270	1.0
145.6468	26.01	-2.64	27620.390	2.5	96279.650	2.5	145.9055	25.02	-3.34	68899.200	4.5	137436.700	4.5
145.6475	27.01	-8.15	3350.500	5.0	72009.400	4.0	145.9066	28.01	-4.36	66579.710	1.5	135116.720	2.5
145.6559	9.02	-3.03	389737.630	.5	458392.610	1.5	145.9110	22.01	-5.46	1087.210	3.5	69622.150	2.5
145.6561	26.02	-2.06	89907.850	4.0	158562.700	4.0	145.9157	26.02	-2.07	118350.240	4.0	186882.980	3.0
145.6561	26.02	-.89	89907.850	5.0	158562.700	4.0	145.9167	26.02	-1.04	116419.390	2.0	184951.620	3.0
145.6579	24.03	-1.51	165440.000	4.5	234094.000	4.5	145.9233	28.01	-4.81	29593.460	.5	98122.630	.5
145.6605	23.01	-5.08	106.630	2.0	68759.400	1.0	145.9234	28.01	-4.81	46571.340	2.5	135100.450	3.5
145.6640	26.01	-3.97	1872.600	4.5	70523.730	3.5	145.9243	18.01	-2.02	150474.900	1.5	219003.600	2.5
145.6688	24.02	-4.47	25725.300	3.0	94374.700	4.0	145.9259	26.02	-.95	116475.440	3.0	185003.350	2.0
145.6694	27.02	-7.57	37316.500	2.5	105965.100	2.5	145.9262	28.01	-4.53	54262.630	3.5	122790.410	4.5
145.6694	15.00	-.94	11360.800	1.5	80009.400	.5	145.9277	22.02	-3.73	8472.600	2.0	76999.700	1.0
145.6699	26.02	-1.51	118350.240	4.0	186998.600	4.0	145.9281	18.01	-1.11	150474.900	1.5	219001.800	1.5
145.6709	30.02	-.56	79273.600	2.0	147921.500	2.0	145.9300	24.03	-.48	164920.000	3.5	233446.000	2.5
145.6747	26.02	-5.61	20688.400	1.0	89334.510	2.0	145.9304	25.01	-4.52	37847.900	2.0	106373.700	2.0
145.6766	38.01	-4.59	0.000	0.0	68645.205	0.0	145.9374	25.01	-4.38	37851.150	3.0	106373.700	2.0
145.6772	18.01	-4.74	135085.920	1.5	203730.860	1.5	145.9382	25.02	-4.67	110036.140	.5	178558.300	1.5
145.6815	25.02	-3.43	71564.210	1.5	140207.090	2.5	145.9415	29.01	-.54	72724.000	2.0	141244.600	1.0
145.6835	26.02	-1.09	116419.390	2.0	185061.350	1.0	145.9491	9.02	-2.42	390077.800	2.5	458594.860	2.5
145.6871	26.02	-2.28	113739.620	6.0	182379.860	5.0	145.9496	27.02	-3.09	72270.500	3.5	140787.300	2.5
145.6911	22.01	-5.09	983.800	2.5	69622.150	2.5	145.9540	9.02	-1.11	391626.910	3.5	460141.630	2.5
145.6952	26.02	-1.99	118246.520	3.0	186882.980	3.0	145.9544	9.02	-3.52	390080.300	1.5	458594.860	2.5
145.6989	26.01	-4.93	667.640	2.5	69302.350	1.5	145.9571	12.03	-.29	543727.000	2.5	612240.300	1.5
145.6995	30.02	-3.05	234866.900	1.0	303501.300	2.0	145.9615	25.01	-5.63	29951.120	1.0	98462.340	2.0
145.7002	23.02	-2.65	87218.920	3.5	155853.000	2.5	145.9627	25.01	-5.94	29951.120	1.0	98461.760	1.0
145.7027	28.01	-2.49	67694.640	2.5	136327.550	1.5	145.9633	28.01	-1.65	53634.620	1.5	122144.990	2.5
145.7066	23.02	-1.59	86938.010	2.5	155569.100	2.5	145.9662	24.02	-4.84	50089.200	4.0	118598.200	3.0
145.7099	27.02	-3.48	56373.800	2.5	125003.300	2.5	145.9671	26.02	-3.38	114948.550	3.0	183457.150	4.0
145.7127	26.02	-2.69	118163.560	2.0	186791.780	2.0	145.9681	26.02	-2.21	114948.550	3.0	183456.690	3.0
145.7132	25.02	-3.13	110711.620	3.5	179339.590	2.5	145.9705	28.02	-2.03	75646.900	4.0	144153.900	4.0
145.7168	9.02	-.95	414894.890	4.5	483521.140	3.5	145.9709	28.01	-1.47	67694.640	2.5	136201.460	3.5
145.7170	29.01	-1.64	68447.570	3.0	137073.750	2.0	145.9750	25.01	-1.80	14325.860	4.0	82830.750	4.0
145.7184	26.02	-4.53	66591.680	1.0	135217.170	1.0	145.9790	26.04	.35	195942.000	3.0	264445.000	4.0
145.7228	9.02	-2.35	144897.720	3.5	483521.140	3.5	145.9793	20.02	-1.34	213379.400	3.0	281882.240	2.0
145.7231	26.02	-.86	116380.070	1.0	185003.350	2.0	145.9802	28.01	-1.44	52738.450	2.5	121240.900	3.5
145.7245	14.02	-4.74	165765.000	2.0	234387.640	1.0	145.9848	28.01	-4.57	68735.980	2.5	137236.280	3.5
145.7329	27.02	-2.33	71873.700	5.5	140492.400	4.5	145.9878	18.01	-1.59	143107.600	2.5	211606.470	3.5
145.7350	28.01	-1.50	68281.620	.5	136899.330	1.5	145.9920	26.02	-4.41	66591.680	1.0	135088.600	0.0
145.7396	25.02	-3.72	71564.210	1.5	140179.740	2.5	146.0020	26.02	-4.27	69695.730	4.0	138187.930	3.0
145.7412	26.02	-2.77	131710.790	5.0	200325.560	4.0	146.0081	28.01	-1.22	52738.450	2.5	121227.800	2.5
145.7414	28.02	-2.35	61339.200	4.0	129953.900	3.0	146.0127	15.00	-1.83	11376.400	2.5	79863.600	3.5
145.7420	17.02	-3.25	29905.600	1.5	98520.000	2.5	146.0129	28.01	-1.44	51557.850	3.5	120044.950	4.5
145.7446	10.01	-3.15	249839.630	.5	318452.820	1.5	146.0174	18.02	-1.66	156917.620	3.0	225402.590	3.0
145.7461	9.02	-1.07	144897.720	3.5	483521.170	2.5	146.0180	27.02	-2.87	71873.700	5.5	140358.400	4.5
145.7467	28.01	-2.93	68154.310	1.5	136766.490	2.5	146.0181	25.02	-3.43	43573.160	4.5	112057.800	3.5
145.7494	26.02	-3.60	63494.000	3.0	132104.940	2.0	146.0191	26.02	-1.59	116467.410	4.0	184951.620	3.0
145.7505	26.02	-3.20	63494.560	2.0	132104.940	2.0	146.0278	29.01	-1.31	72724.000	2.0	141204.100	3.0
145.7510	25.01	-2.74	14325.860	4.0	82936.010	3.0	146.0312	18.01	-1.64	143107.600	2.5	211586.110	2.5
145.7560	25.03	-2.52	120603.100	4.0	189210.900	4.0	146.0316	28.01	-1.52	53634.620	1.5	122112.960	.5
14													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
146.1189	26.02	-1.98	121741.670	4.40	189679.070	3.40	146.4552	28.01	-3.58	54557.050	4.50	122837.230	4.50
146.1197	23.02	-2.30	87544.460	4.50	155981.500	3.50	146.4570	25.01	-3.37	14325.860	4.00	82605.290	4.00
146.1240	26.01	-5.59	667.640	2.50	69102.690	2.50	146.4592	26.02	-3.53	83358.880	2.00	151637.300	1.00
146.1261	26.02	-2.95	119697.640	2.00	188131.700	1.00	146.4596	29.01	-1.18	70841.300	3.00	139119.500	3.00
146.1262	10.03	-2.40	579626.000	1.50	648060.000	1.50	146.4601	24.03	-3.24	165440.000	4.50	233718.000	4.50
146.1550	29.01	-1.68	67916.390	1.00	136336.880	1.00	146.4663	27.02	-4.11	72083.300	4.50	140358.400	4.50
146.1557	26.03	-4.36	127764.700	.50	196184.900	1.50	146.4712	25.02	-1.80	113676.530	2.50	181949.340	2.50
146.1575	22.01	-4.99	907.960	1.50	69327.320	1.50	146.4720	24.01	-9.28	12148.000	2.50	80420.430	2.50
146.1594	25.02	-3.17	110398.500	2.50	178816.960	2.50	146.4729	26.02	-2.97	82382.870	3.00	150654.900	3.00
146.1595	28.01	-2.79	53037.930	2.50	121456.320	1.50	146.4729	26.04	.43	196845.000	4.00	265117.000	5.00
146.1616	25.01	-4.58	37847.900	2.00	106265.300	1.00	146.4733	9.02	-3.06	390120.770	.50	458392.610	1.50
146.1618	25.01	-6.54	0.000	3.00	68417.340	2.00	146.4779	12.03	-1.15	612240.300	1.50	680510.000	2.50
146.1649	18.01	-4.05	135085.920	1.50	203501.800	2.50	146.4782	25.01	-3.61	41204.340	5.00	109473.900	4.00
146.1733	26.02	-1.48	119697.640	2.00	188109.580	3.00	146.4812	26.01	-2.55	25805.320	4.50	94073.460	3.50
146.1771	26.02	-1.89	50276.100	4.00	118686.250	4.00	146.4852	26.02	-3.14	69836.830	3.00	138103.120	4.00
146.1794	27.02	-3.80	72083.300	4.50	140492.400	4.50	146.4971	18.01	-2.33	142186.270	4.50	210447.010	3.50
146.1830	26.02	-3.55	69695.730	4.00	138103.120	4.00	146.4974	15.00	-4.76	0.000	1.50	68260.600	.50
146.1834	26.01	-1.75	18360.650	1.50	86767.870	2.50	146.4983	29.01	-4.59	72724.000	2.00	140984.200	1.00
146.1836	28.01	-3.48	66571.340	2.50	134978.470	2.50	146.5007	18.01	-4.49	135085.920	1.50	203344.980	1.50
146.1890	20.02	-.70	279353.640	1.00	347758.220	2.00	146.5029	26.02	-3.88	50184.900	2.00	118442.920	3.00
146.1971	15.00	-1.74	11360.800	1.50	79761.600	2.50	146.5055	26.03	-2.77	127928.100	1.50	196184.900	1.50
146.2130	26.02	-2.56	132262.660	6.00	200656.020	6.00	146.5056	26.02	-2.35	131445.030	2.00	199701.820	3.00
146.2180	26.02	-3.27	50295.200	3.00	118686.250	4.00	146.5061	26.02	-4.13	123750.390	3.00	192006.940	2.00
146.2194	25.02	-2.61	68892.000	3.50	137282.400	2.50	146.5073	9.02	-1.81	390080.300	1.50	458336.270	.50
146.2214	23.02	-4.81	85875.740	3.50	154265.200	3.50	146.5083	24.01	-9.95	12032.720	1.50	80288.250	1.50
146.2224	25.02	-5.64	43668.840	2.50	112057.800	3.50	146.5154	18.01	-1.24	142186.270	4.50	210438.500	4.50
146.2243	28.01	-2.82	68131.210	3.50	136519.280	4.50	146.5186	27.02	-4.71	103690.800	.50	171941.500	.50
146.2273	25.01	-1.12	14325.860	4.00	82712.550	3.00	146.5240	24.02	-4.29	25781.000	2.00	94029.200	3.00
146.2296	25.02	-3.72	110172.690	1.50	178558.300	1.50	146.5277	15.00	-5.25	0.000	1.50	68246.500	2.50
146.2305	15.00	-3.39	11376.400	2.50	79761.600	2.50	146.5281	26.02	-3.46	90483.590	3.00	158729.890	3.00
146.2315	26.01	-1.71	25805.320	4.50	94190.020	5.50	146.5281	28.01	-2.49	68965.650	1.50	137211.930	.50
146.2315	12.02	-.92	7477435.700	2.00	545820.400	2.00	146.5291	26.02	-.83	113584.200	2.00	181830.020	3.00
146.2321	9.02	-1.19	390210.430	3.50	458594.860	2.50	146.5295	26.02	-2.06	132079.910	3.00	200325.560	4.00
146.2422	25.02	-4.88	72183.330	3.50	140563.030	3.50	146.5320	26.02	-2.25	113584.200	2.00	181828.660	2.00
146.2477	28.01	-.96	52738.450	2.50	121115.590	1.50	146.5322	26.02	-4.77	63466.390	5.00	131710.790	5.00
146.2520	25.02	-3.99	17831.980	2.50	140207.090	2.50	146.5330	26.04	-2.29	187162.000	3.00	255406.000	3.00
146.2525	27.02	-3.89	72270.500	3.50	140645.400	3.50	146.5367	26.02	-4.11	118355.010	6.00	186597.300	6.00
146.2541	25.02	-3.24	72183.330	3.50	140557.460	4.50	146.5415	26.01	-5.17	862.630	1.50	69102.690	2.50
146.2673	26.04	.01	186437.000	1.00	254805.000	2.00	146.5461	28.01	-3.51	71770.830	2.50	140008.760	3.50
146.2840	9.01	-3.07	227228.420	1.00	295588.610	1.00	146.5482	25.01	-1.86	14593.820	3.00	82830.750	4.00
146.2868	26.02	-3.70	69695.730	4.00	138054.590	5.00	146.5543	29.01	-.27	69704.800	4.00	137938.900	4.00
146.2886	26.02	-4.58	132079.910	3.00	200437.940	2.00	146.5586	27.02	-1.13	103593.700	2.50	171825.800	1.50
146.2893	29.02	-1.48	80305.200	1.50	148662.900	2.50	146.5599	28.02	.28	112787.400	6.00	181018.900	5.00
146.2904	26.03	-3.18	128190.100	2.50	196547.300	3.50	146.5620	18.02	-2.28	156924.680	2.00	225155.180	1.00
146.2910	24.02	-3.11	43286.400	4.00	111643.300	4.00	146.5624	18.02	-2.21	156917.620	3.00	225147.930	2.00
146.2940	28.01	-.91	51557.850	3.50	119913.330	4.50	146.5676	27.02	-1.05	103501.700	3.50	171729.600	2.50
146.2959	25.01	-6.23	14901.180	1.00	83255.800	2.00	146.5738	30.02	-4.08	79273.600	2.00	147498.600	1.00
146.3002	27.01	-6.39	3350.500	5.00	71703.100	5.00	146.5743	28.01	-1.77	68735.980	2.50	136960.750	2.50
146.3034	26.02	-3.78	69836.830	3.00	138187.930	3.00	146.5746	26.02	-.12	113605.370	3.00	181830.020	3.00
146.3054	23.02	-4.21	87218.920	3.50	155569.100	2.50	146.5762	28.01	-4.12	68735.980	2.50	136959.860	2.50
146.3061	25.02	-4.49	110036.140	.50	178386.000	.50	146.5775	26.02	-2.23	113605.370	3.00	181828.660	2.00
146.3082	26.02	-2.95	118442.920	3.00	186791.780	2.00	146.5776	18.02	-2.10	156924.680	2.00	225147.930	2.00
146.3087	18.01	-4.34	142186.270	4.50	210534.900	4.50	146.5791	20.02	-4.25	290934.300	0.00	359156.830	1.00
146.3103	28.01	-1.09	53037.930	2.50	121385.800	1.50	146.5805	27.02	-4.24	72270.500	3.50	140492.400	4.50
146.3106	25.02	-4.57	17831.980	2.50	140179.740	2.50	146.5839	26.02	-.62	113605.370	3.00	181825.670	4.00
146.3138	26.02	-2.59	115110.920	4.00	183457.150	4.00	146.5882	28.02	-2.03	75646.900	4.00	143865.200	3.00
146.3148	26.02	-2.00	115110.920	4.00	183456.690	3.00	146.5938	30.02	-4.14	237047.800	2.00	305263.500	2.00
146.3156	18.01	-.42	142186.270	4.50	210531.700	5.00	146.5942	9.02	-2.19	390120.770	.50	458336.270	.50
146.3197	22.01	-6.40	983.800	2.50	69327.320	1.50	146.5953	24.03	-1.42	165440.000	4.50	233655.000	5.50
146.3199	26.01	-.96	25805.320	4.50	94148.710	4.50	146.5958	25.02	-4.75	43668.840	2.50	111883.600	2.50
146.3203	23.02	-1.11	88327.960	3.50	156671.200	2.50	146.5958	18.01	-1.37	143371.350	1.50	211586.110	2.50
146.3209	25.01	-4.45	38542.960	3.00	106885.900	4.00	146.5990	25.02	-2.80	110172.690	1.50	178386.000	.50
146.3225	25.01	-2.19	14593.820	3.00	82936.010	3.00	146.6069	29.01	.13	71531.500	3.00	139741.100	3.00
146.3240	28.02	.20	113140.800	5.00	181482.300	4.00	146.6084	25.02	-5.99	43674.700	1.50	111883.600	2.50
146.3272	25.01	-3.42	33248.320	4.00	101588.300	3.00	146.6093	27.02	-3.09	56794.800	1.50	125003.300	2.50
146.3302	25.00	-3.71	0.000	2.50	68338.590	3.50	146.6125	24.03	-.39	165440.000	4.50	233647.000	3.50
146.3336	6.00	-.50	10192.630	2.00	78529.620	3.00	146.6139	26.02	-3.74	151536.680	1.00	219743.040	1.00
146.3341	20.02	-.66	203851.950	1.00	272188.700	1.00	146.6142	28.01	-3.76	29593.460	.50	97799.660	1.50
146.3364	15.00	-2.45	11360.800	1.50	79696.500	1.50	146.6165	26.02	-3.32	151537.910	0.00	219743.040	1.00
146.3422	26.02	-1.88	132104.940	2.00	200437.940	2.00	146.6207	27.01	-0.00	0.000	4.00	68203.200	5.00
146.3566	24.01	-9.84	11962.000	.50	80288.250	1.50	146.6211	24.04	.02	171736.000	2.00	239939.000	1.00
146.3586	26.01	-5.01	977.030	.50	69302.350	1.50	146.6213	28.01	-3.33	29070.930	1.50	97273.830	2.50
146.3615	25.01	-3.19	14593.820	3.00	82917.780	2.00	146.6256	18.01	-2.10	143371.350	1.50	211572.270	1.50
146.3615	24.03	-2.22	164920.000	3.50	233244.000	4.50	146.6258	28.01	-4.28	68735.980	2.50	136936.820	3.50
146.3636	10.03	-.96	579737.000	.50	648060.000	1.50	146.6261	26.01	-7.37	25787.600	1.50	93988.300	2.50
146.3666	24.02	-2.64	43321.700	3.00	111643.300	4.00	146.6294						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
146.7199	12.02	-1.85	478374.500	1.0	546531.600	1.0	146.9434	26.02	-1.13	116898.220	2.0	184951.620	3.0
146.7248	25.01	-3.14	14781.190	2.0	82936.010	3.0	146.9436	24.02	-3.14	43321.700	3.0	111375.000	3.0
146.7259	28.01	-1.30	0.000	2.5	68154.310	1.5	146.9516	27.02	-3.73	103690.800	.5	171740.400	1.5
146.7360	22.03	.61	128730.900	1.5	196880.500	2.5	146.9516	27.02	-3.73	103690.800	.5	171740.400	1.5
146.7363	26.02	-1.87	119982.260	1.0	188131.700	1.0	146.9516	27.02	-1.33	103690.800	.5	171740.400	1.5
146.7380	26.02	-4.96	113677.010	5.0	181825.670	4.0	146.9534	30.02	-4.46	235450.500	2.0	303501.300	2.0
146.7401	26.02	-2.70	50295.200	3.0	184442.920	3.0	146.9560	9.01	-4.90	202460.690	2.0	270508.290	2.0
146.7402	6.00	-1.14	10192.630	2.0	78340.280	1.0	146.9596	28.01	-1.71	68281.620	.5	136327.550	1.5
146.7405	14.01	-2.27	83802.210	.5	151949.700	1.5	146.9687	29.01	-6.60	70841.300	3.0	138883.000	4.0
146.7422	27.02	-2.90	103593.700	2.5	171740.400	1.5	146.9698	15.00	-2.70	11360.800	1.5	79402.000	2.5
146.7422	27.02	-2.90	103593.700	2.5	171740.400	1.5	146.9709	23.02	-1.99	11111.390	4.5	179152.090	3.5
146.7422	27.02	-2.90	103593.700	2.5	171740.400	1.5	146.9723	26.02	-3.56	118557.250	5.0	186597.300	6.0
146.7513	26.03	-1.96	128190.100	2.5	196332.600	2.5	146.9728	24.02	-6.22	25725.800	3.0	93765.600	2.0
146.7513	27.02	-2.70	72083.300	4.5	140225.800	3.5	146.9771	25.01	-2.91	14901.180	1.0	82939.000	1.0
146.7535	25.01	-9.99	14593.820	3.0	82735.290	2.0	146.9801	27.02	-2.13	70934.100	2.5	138970.500	1.5
146.7537	26.02	-2.97	115289.910	5.0	183431.280	5.0	146.9839	29.01	-1.49	68730.720	4.0	136765.380	4.0
146.7547	27.02	-1.21	103386.700	4.5	171527.600	3.5	146.9876	26.02	.27	113739.620	6.0	181772.590	6.0
146.7561	24.01	-9.49	12148.000	2.5	80288.250	1.5	146.9898	26.02	-4.35	151534.130	3.0	219566.080	3.0
146.7567	29.01	-2.29	70841.300	3.0	138981.300	2.0	146.9914	26.02	-2.84	151534.900	2.0	219566.080	3.0
146.7569	26.02	-1.72	118163.560	2.0	186303.440	3.0	146.9929	28.01	-3.12	68735.980	2.5	136766.490	2.5
146.7588	15.00	-2.31	11376.400	2.5	79515.400	3.5	146.9948	9.02	-3.01	389525.550	1.5	457555.170	1.5
146.7588	15.03	-4.02	0.000	0.0	68139.000	1.0	146.9959	11.02	-1.51	374681.400	.5	442710.500	1.5
146.7607	23.02	-2.31	87544.460	4.5	155682.600	3.5	146.9968	26.02	-1.80	118350.240	4.0	186378.940	4.0
146.7634	28.01	-5.55	70358.940	4.5	138495.840	4.5	146.9976	26.02	-5.56	116975.050	2.0	185003.350	2.0
146.7640	25.01	-5.30	14781.190	2.0	82917.780	2.0	146.9976	26.01	-3.39	18360.650	1.5	86388.980	.5
146.7642	28.01	-1.92	68154.310	1.5	136290.830	.5	146.9977	26.02	-4.93	151537.800	4.0	219566.080	3.0
146.7655	27.02	.05	103593.700	2.5	171729.600	2.5	146.9977	25.02	-5.05	43573.160	4.5	111601.450	5.5
146.7674	27.02	.22	103690.800	.5	171825.800	1.5	146.9982	9.01	-4.75	202480.260	3.0	270508.290	2.0
146.7690	28.01	-1.24	68154.310	1.5	136288.600	2.5	147.0013	26.01	-1.99	15844.710	4.5	83871.310	4.5
146.7725	26.02	-2.75	132262.660	6.0	200395.330	5.0	147.0028	27.02	.08	103501.700	3.5	171527.600	3.5
146.7730	26.02	-1.57	118246.520	3.0	186378.940	4.0	147.0035	15.00	-3.47	11376.400	2.5	79402.000	2.5
146.7746	26.02	.14	113677.010	5.0	181808.700	5.0	147.0067	27.02	-1.60	103245.000	5.5	171269.100	4.5
146.7756	28.01	-1.05	0.000	2.5	68131.210	3.5	147.0093	27.02	-2.97	78927.800	3.5	146950.700	2.5
146.7756	15.03	-2.78	189389.000	1.0	257520.200	1.0	147.0094	6.00	-2.10	10192.630	2.0	78215.510	3.0
146.7756	15.03	-1.50	189389.000	2.0	257520.200	1.0	147.0107	26.02	-3.06	118246.520	3.0	186268.790	2.0
146.7795	26.02	-1.86	120826.170	2.0	188955.560	3.0	147.0117	29.02	-1.70	126093.800	3.5	194115.600	3.5
146.7799	18.01	-4.28	135601.650	.5	203730.860	1.5	147.0160	26.01	-1.85	26170.190	5.5	94190.020	5.5
146.7846	26.02	-2.77	119982.260	1.0	188109.320	0.0	147.0198	26.01	-1.88	26055.400	2.5	94073.460	3.5
146.7858	15.00	-4.73	0.000	1.5	68125.500	.5	147.0229	25.01	-2.34	14901.180	1.0	82917.780	2.0
146.7877	6.00	-3.12	10192.630	2.0	78318.250	3.0	147.0313	28.01	-1.96	53037.930	2.5	121050.660	2.5
146.7916	26.02	-1.62	116937.570	1.0	185061.350	1.0	147.0330	18.01	-3.92	134241.650	2.5	202253.590	1.5
146.7916	18.02	-2.39	157031.400	1.0	225155.180	1.0	147.0335	26.02	-2.86	76956.790	3.0	144968.500	4.0
146.7967	26.02	-6.75	151534.130	3.0	219655.550	2.0	147.0340	25.01	-1.17	14593.820	3.0	82605.290	4.0
146.7984	26.02	-3.95	151534.900	2.0	219655.550	2.0	147.0381	29.02	-1.69	128435.300	1.5	196444.900	1.5
146.8022	26.02	-2.98	151536.680	1.0	219655.550	2.0	147.0389	28.01	-1.57	68281.620	.5	136290.830	.5
146.8025	25.01	-6.64	14593.820	3.0	82712.550	3.0	147.0428	28.01	-2.54	54262.630	3.5	122270.050	3.5
146.8072	18.02	-2.48	157031.400	1.0	225147.930	2.0	147.0439	26.03	-1.33	128540.400	3.5	196547.300	3.5
146.8074	24.01	-9.30	12303.980	3.5	80420.430	2.5	147.0444	26.01	-2.58	25981.650	3.5	93988.300	2.5
146.8105	6.00	-4.03	10192.630	2.0	78307.630	2.0	147.0449	6.00	-3.50	10192.630	2.0	78199.070	2.0
146.8161	25.02	-4.38	71831.980	2.5	139944.000	3.5	147.0488	28.01	-2.40	53037.930	2.5	121042.570	1.5
146.8161	27.02	-3.89	72270.500	3.5	140382.900	3.5	147.0522	26.02	-1.59	121008.780	3.0	189011.840	4.0
146.8167	23.02	-3.28	88559.080	1.5	156671.200	2.5	147.0571	26.01	-7.33	0.000	4.5	68000.820	4.5
146.8183	29.02	-3.32	80551.500	2.5	148662.900	2.5	147.0658	28.01	-2.19	68735.980	2.5	136732.740	1.5
146.8189	25.02	-4.07	72183.330	3.5	140294.440	3.5	147.0692	29.01	-1.15	68730.720	4.0	136725.930	5.0
146.8213	11.05	-9.34	35518.000	2.0	103628.000	2.0	147.0694	28.01	-2.73	68965.650	1.5	136960.750	2.5
146.8228	27.01	-1.19	950.300	3.0	69059.590	3.0	147.0701	26.03	-2.78	128190.100	2.5	196184.900	1.5
146.8261	25.02	-4.94	43668.840	2.5	111776.600	1.5	147.0713	28.01	-4.18	68965.650	1.5	136959.860	2.5
146.8268	28.01	-4.42	51557.850	3.5	119665.290	2.5	147.0726	26.02	-4.83	90423.680	2.0	158417.310	2.0
146.8314	25.02	-2.05	110711.620	3.5	178816.960	2.5	147.0728	25.01	-9.99	14781.190	2.0	82774.730	1.0
146.8316	26.02	-1.74	118163.560	2.0	186268.790	2.0	147.0795	26.02	-3.45	118721.600	2.0	186712.020	1.0
146.8318	26.02	-1.02	116898.220	2.0	185003.350	2.0	147.0798	26.02	-4.56	83646.980	1.0	151637.300	1.0
146.8329	26.02	-7.79	118350.240	4.0	186454.890	5.0	147.0813	28.01	-4.09	68965.650	1.5	136955.280	.5
146.8366	27.01	-7.76	18031.500	2.0	86134.400	1.0	147.0854	27.02	-6.86	37021.000	3.5	105008.700	3.5
146.8388	25.02	-5.53	43674.700	1.5	111776.600	1.5	147.0874	26.02	-1.23	89697.520	3.0	157684.300	2.0
146.8410	6.00	-5.24	10192.630	2.0	78293.490	1.0	147.0913	24.03	-2.45	16420.000	3.5	232905.000	3.5
146.8431	26.02	-4.07	118355.010	6.0	186454.890	5.0	147.0921	24.02	-4.87	25781.000	2.0	93765.600	2.0
146.8434	27.01	-3.07	1597.200	2.0	69696.970	3.0	147.1010	27.01	-6.78	4028.900	4.0	72009.400	4.0
146.8456	28.01	-3.37	66571.340	2.5	134670.070	1.5	147.1039	25.01	-4.32	14959.840	0.0	82939.000	1.0
146.8463	28.01	-5.50	51557.850	3.5	119656.250	3.5	147.1050	26.02	-2.11	50184.900	2.0	118163.560	2.0
146.8483	25.02	-3.12	72183.330	3.5	140280.800	4.5	147.1051	15.00	-2.97	11360.800	1.5	79399.400	1.5
146.8524	26.02	-6.69	113677.010	5.0	181772.590	6.0	147.1053	26.01	-3.99	26170.190	5.5	94148.710	4.5
146.8558	26.02	-2.62	131710.790	5.0	199804.810	4.0	147.1067	29.01	-1.93	70841.300	3.0	138819.170	3.0
146.8566	25.01	-4.23	14325.860	4.0	82419.480	3.0	147.1095	26.02	-4.46	116975.050	2.0	184951.620	3.0
146.8566	26.01	-5.71	2430.080	3.5	70523.730	3.5	147.1107	24.03	-1.07	109950.000	2.5	177926.000	3.5
146.8605	26.01	-1.10	25981.650	3.5	94073.460	3.5	147.1150	26.02	-4.75	122944.150	4.0	190918.170	3.0
146.8616	26.02	-3.50	132564.710	5.0	200656.020	6.0	147.1191	23.02	-2.27	87880.850	2.5	155853.000	2.5
146.8675	24.02	-4.26	43286.400	4.0	111375.000	3.0	147.1228	26.02	-2.97	50276.100	4.0	118246.520	3.0
146.8690	27.02	-4.25	72270.500	3.5	140358.40								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
147.2000	26.02	-0.80	117068.560	3.0	185003.350	2.0	147.4689	27.02	-4.01	103655.700	1.5	171466.600	2.5
147.2013	26.02	-3.36	151537.800	4.0	219471.970	4.0	147.4689	27.02	-1.40	103655.700	1.5	171466.600	2.5
147.2019	27.02	.57	103593.700	2.5	171527.600	3.5	147.4703	23.02	-.65	42371.200	1.5	110181.470	2.5
147.2023	26.02	-2.37	90483.590	3.0	158417.310	2.0	147.4707	18.01	-3.85	142717.020	3.5	210527.100	2.5
147.2024	28.01	-2.82	68965.650	1.5	136899.330	1.5	147.4722	24.02	-2.87	71166.100	2.0	138975.500	3.0
147.2041	26.01	-1.21	26055.400	2.5	93988.300	2.5	147.4752	23.01	-4.28	339.210	4.0	68147.200	4.0
147.2074	25.01	-1.20	14781.190	2.0	82712.550	3.0	147.4772	27.02	-4.91	73540.200	3.5	141347.300	4.5
147.2090	15.01	-4.24	8882.600	2.0	76813.220	1.0	147.4793	20.01	-2.76	13710.880	2.5	81517.000	1.5
147.2114	28.01	-1.98	53365.170	4.5	121294.670	4.5	147.4839	24.03	-2.00	165440.000	4.5	233244.000	4.5
147.2127	10.01	-1.96	251011.180	2.5	318940.080	1.5	147.4882	23.02	-1.71	88327.960	3.5	156130.000	4.5
147.2142	28.01	-4.67	70635.460	2.5	138563.710	3.5	147.4888	23.02	-2.32	78880.850	2.5	155682.600	3.5
147.2219	25.02	-2.99	68899.200	4.5	136823.860	3.5	147.4902	12.02	-1.82	467378.500	1.0	535179.600	2.0
147.2231	6.00	-3.22	10192.630	2.0	78116.740	1.0	147.4908	28.01	-2.11	68965.650	1.5	136766.490	2.5
147.2236	26.02	-2.26	118867.870	1.0	186791.780	2.0	147.4920	9.02	-4.78	415720.860	2.5	483521.140	3.5
147.2252	29.01	-4.32	68850.060	0.0	136773.200	1.0	147.4931	29.01	-1.77	71531.500	3.0	139331.300	3.0
147.2282	18.01	-4.85	135085.920	1.5	203007.690	1.5	147.4960	23.01	-4.74	106.630	2.0	67905.100	3.0
147.2302	9.02	-3.54	389525.550	1.5	457446.390	.5	147.4966	28.01	-4.21	53496.490	5.0	121294.670	4.5
147.2304	23.02	-1.49	87880.850	2.5	155801.600	1.5	147.5015	24.01	-2.53	26352.800	4.5	94148.710	4.5
147.2377	24.02	-4.28	25848.200	1.0	93765.600	2.0	147.5015	27.01	-1.23	18338.500	1.0	86134.400	1.0
147.2399	29.01	-2.08	0.000	0.0	67916.390	1.0	147.5057	27.02	-3.49	105008.700	3.5	172802.700	2.5
147.2400	18.01	-.89	151087.250	2.5	219003.600	2.5	147.5063	25.01	-3.28	14593.820	3.0	82387.530	3.0
147.2405	28.02	-2.67	76237.800	3.0	144153.900	4.0	147.5079	24.03	-.69	232573.000	2.5	300366.000	3.5
147.2439	18.01	-2.03	151087.250	2.5	219001.800	1.5	147.5096	26.03	-2.20	128540.400	3.5	196332.600	2.5
147.2441	26.02	-4.21	131991.580	7.0	199906.030	6.0	147.5116	25.01	-3.93	14325.860	4.0	82117.160	5.0
147.2449	23.02	-1.69	42267.400	2.5	110181.470	2.5	147.5150	12.03	-1.71	612240.300	1.5	680030.000	1.5
147.2477	28.01	-3.11	54262.630	3.5	122175.420	2.5	147.5252	26.02	-1.84	69788.190	1.0	137573.200	1.0
147.2532	25.01	-2.58	0.000	3.0	67910.260	4.0	147.5254	23.02	-1.91	88559.080	1.5	156344.000	1.5
147.2557	15.00	-3.89	0.000	1.5	67909.100	1.5	147.5260	28.01	-3.79	54262.630	3.5	122047.290	3.5
147.2569	28.01	-.98	54176.260	.5	122084.790	1.5	147.5261	28.01	-1.60	53601.190	1.5	121385.800	1.5
147.2592	18.01	-2.93	134241.650	2.5	202149.110	2.5	147.5277	27.02	-.22	103245.000	5.5	171028.900	5.5
147.2617	25.01	-.76	14325.860	4.0	82232.180	5.0	147.5299	26.02	-1.35	121241.670	4.0	189024.530	5.0
147.2654	25.02	-3.48	68892.000	3.5	136796.610	2.5	147.5357	28.02	.19	115272.500	5.0	183052.700	4.0
147.2656	27.02	-4.36	73286.000	4.5	141190.500	5.5	147.5405	26.04	-1.69	188401.000	5.0	256179.000	4.0
147.2749	28.01	-4.97	68131.210	3.5	136031.430	2.5	147.5415	25.01	-4.04	30684.810	1.0	98462.340	2.0
147.2750	28.01	-4.31	68154.310	1.5	136054.500	1.5	147.5420	28.02	-1.83	113705.000	4.0	181482.300	4.0
147.2805	26.02	-3.86	118557.250	5.0	186454.890	5.0	147.5428	25.01	-4.34	30684.810	1.0	98461.760	1.0
147.2818	26.01	-5.94	8680.470	1.5	76577.500	.5	147.5493	25.01	-2.02	14325.860	4.0	82099.820	4.0
147.2830	29.02	-.97	78779.400	1.5	146675.900	.5	147.5516	26.02	-2.19	69788.190	1.0	137561.100	1.0
147.2836	28.01	-3.74	68154.310	1.5	136050.530	2.5	147.5575	26.02	-2.79	121241.670	4.0	189011.840	4.0
147.2895	27.01	-.09	950.300	3.0	68843.800	4.0	147.5594	30.02	-.90	147571.200	1.0	215340.500	2.0
147.2941	25.00	-4.39	0.000	2.5	67891.360	3.5	147.5609	26.02	-1.93	118686.250	4.0	186454.890	5.0
147.2956	26.02	-3.33	134265.420	2.0	202156.130	2.0	147.5636	27.02	.71	103501.700	3.5	171269.100	4.5
147.3019	27.02	-1.67	78927.800	3.5	146815.600	3.5	147.5643	28.01	-1.63	68965.650	1.5	136732.740	1.5
147.3087	26.01	-3.07	2430.080	3.5	70314.700	4.5	147.5655	25.01	-8.36	0.000	3.0	67766.510	2.0
147.3122	26.02	-.38	117068.560	3.0	184951.620	3.0	147.5677	29.02	-1.93	128679.400	2.5	196444.900	1.5
147.3136	27.02	.01	103386.700	4.5	171269.100	4.5	147.5689	26.02	-2.59	134265.420	2.0	202030.380	3.0
147.3137	28.01	-3.63	54262.630	3.5	122144.990	2.5	147.5769	15.00	-2.79	11360.800	1.5	79122.100	1.5
147.3137	15.01	-3.00	8882.600	2.0	76764.960	2.0	147.5774	25.02	-4.89	72183.330	3.5	139944.400	3.5
147.3160	9.02	-2.79	390077.800	2.5	457959.070	3.5	147.5778	26.02	-2.57	132564.710	5.0	200325.560	4.0
147.3190	28.02	-4.00	75123.800	5.0	143003.700	4.0	147.5781	18.01	-2.46	142717.020	3.5	210477.770	3.5
147.3195	26.02	-3.05	134549.380	1.0	202429.040	1.0	147.5791	9.02	-1.51	390834.600	2.5	458594.860	2.5
147.3227	26.03	-.78	128966.300	4.5	196844.500	4.5	147.5804	28.01	-1.78	68965.650	1.5	136725.330	.5
147.3229	28.02	-2.13	113140.800	5.0	181018.900	5.0	147.5812	26.02	-4.66	121919.740	3.0	189679.070	3.0
147.3230	28.01	-1.77	54262.630	3.5	122140.710	4.5	147.5849	28.01	-4.40	51557.850	3.5	119315.440	2.5
147.3236	26.02	-2.65	151537.800	4.0	219415.610	5.0	147.5869	30.02	-3.65	237506.800	1.0	305263.500	2.0
147.3242	6.00	-3.19	21648.010	0.0	89525.540	1.0	147.5875	26.02	-1.97	69788.190	1.0	137544.600	2.0
147.3244	30.02	-3.44	235623.900	3.0	303501.300	2.0	147.5960	10.01	-2.78	224699.270	.5	292451.780	1.5
147.3250	28.01	-4.47	68154.310	1.5	136031.430	2.5	147.6000	12.01	-1.84	35669.310	.5	103420.000	1.5
147.3281	28.01	-2.41	53365.170	4.5	121240.900	3.5	147.6039	28.01	-.99	54176.260	.5	121925.160	.5
147.3282	24.01	-4.79	0.000	2.5	67875.680	3.5	147.6044	9.02	-1.67	390210.430	3.5	457959.070	3.5
147.3328	25.01	-1.67	14901.180	1.0	82774.730	1.0	147.6059	29.01	-2.06	67916.390	1.0	135664.340	1.0
147.3342	27.02	-3.20	103593.700	2.5	171466.600	2.5	147.6065	18.01	-2.39	142717.020	3.5	210464.710	2.5
147.3342	27.02	-3.20	103593.700	2.5	171466.600	2.5	147.6066	28.01	-3.60	68154.310	1.5	135901.960	2.5
147.3342	27.02	-.51	103593.700	2.5	171466.600	2.5	147.6080	25.04	-.18	178560.000	4.5	246307.000	3.5
147.3394	24.01	-6.09	0.000	2.5	67870.500	1.5	147.6108	15.00	-3.95	11376.400	2.5	79122.100	1.5
147.3399	30.02	.10	78096.300	3.0	145966.600	3.0	147.6111	23.01	-5.36	8640.210	2.0	76385.800	3.0
147.3407	28.02	-3.66	71383.700	2.0	139253.600	2.0	147.6160	18.01	-3.41	135601.650	.5	203344.980	1.5
147.3412	27.02	-3.92	72341.900	1.5	140211.600	2.5	147.6193	26.02	-4.21	73727.640	2.0	141469.450	1.0
147.3441	26.02	-3.00	50295.200	3.0	118163.560	2.0	147.6210	26.02	-2.23	132262.660	6.0	200003.700	7.0
147.3447	24.01	-5.34	0.000	2.5	67868.050	2.5	147.6225	25.02	-3.06	114209.010	3.5	181949.340	2.5
147.3474	20.01	-3.72	13650.190	1.5	81517.000	1.5	147.6257	26.02	-1.81	73727.640	2.0	141466.530	3.0
147.3494	28.01	-4.77	67880.160	2.5	135746.060	3.5	147.6281	26.02	-3.82	121941.290	4.0	189679.070	3.0
147.3500	25.01	-4.59	0.000	3.0	67865.630	4.0	147.6284	26.01	-5.22	8391.920	2.5	76129.580	1.5
147.3508	28.01	-2.87	53037.930	2.5	120903.200	3.5	147.6316	26.02	-4.31	132659.170	4.0	200395.330	5.0
147.3518	26.02	-3.23	121919.740	3.0	189784.520	2.0	147.6333	27.02	-2.20	72083.300	4.5	139818.700	3.5
147.3529	29.01	-.86	71531.500	3.0	139395.800	4.0	147.6363	26.01	-4.34	1872.600	.5	69606.640	3.5
147.3611	26.02	-2.52	118442.920	3.0	186303.440	3.0	147.6434	26.01	-4.75	8846.760	.5	76577.500	.5
147.3648	15.00	-2.10	11360.800	1.5	79219.600	.5	147.6451	18.01	-1				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
147.7415	29.01	-3.37	71531.500	3.0	139217.300	2.0	148.0446	26.02	-3.69	118721.600	2.0	186268.790	2.0
147.7415	26.01	-3.18	2837.940	2.5	70523.730	3.5	148.0475	17.03	-1.59	247575.100	1.0	315121.000	1.0
147.7421	12.02	-1.35	478846.100	2.0	546531.600	1.0	148.0479	26.02	-4.23	79860.420	5.0	147408.140	5.0
147.7453	28.01	-3.60	53496.490	5.5	121180.550	5.5	148.0496	26.02	-2.97	76956.790	3.0	144501.740	2.0
147.7481	9.01	-1.82	202460.690	2.0	270143.460	2.0	148.0501	9.01	-4.89	230998.600	3.0	298543.300	4.0
147.7489	26.01	-1.92	25805.320	4.5	93487.710	3.5	148.0520	23.01	-5.15	8841.970	3.0	76385.800	3.0
147.7517	27.01	-1.49	18031.500	2.0	85712.600	2.0	148.0538	26.02	-4.75	121468.820	5.0	189011.840	4.0
147.7520	26.04	-1.49	187725.000	4.0	255406.000	3.0	148.0547	20.02	-1.21	279353.640	1.0	346896.260	2.0
147.7554	26.01	-3.74	25805.320	4.5	93484.750	4.5	148.0582	26.01	-3.78	25787.600	1.5	93328.600	1.5
147.7661	25.02	-3.78	72183.330	3.5	139857.840	4.5	148.0585	26.02	-1.41	115289.910	5.0	182830.760	6.0
147.7668	27.01	-5.37	4028.900	4.0	71703.100	5.0	148.0600	26.02	-3.63	132785.360	4.0	200325.560	4.0
147.7694	24.04	-1.52	167184.000	1.0	234857.000	2.0	148.0628	18.02	-3.48	204649.240	2.0	272188.160	2.0
147.7729	26.02	-4.47	73727.640	2.0	141399.040	2.0	148.0643	25.02	-3.62	43573.160	4.5	111111.390	4.5
147.7735	23.02	-3.86	86809.390	5.5	154480.500	4.5	148.0655	28.01	-2.85	55299.650	4.5	122837.330	4.5
147.7760	26.02	-1.94	134360.400	4.0	202030.380	3.0	148.0670	25.01	-1.78	14325.860	4.0	81862.840	4.0
147.7804	25.01	-3.01	14325.860	4.0	81993.850	4.0	148.0747	26.02	-2.42	73935.960	0.0	141469.450	1.0
147.7821	28.02	-2.41	116192.100	4.0	183859.300	3.0	148.0776	26.02	-2.54	114948.550	3.0	182480.720	2.0
147.7839	26.02	-2.70	132659.170	4.0	200325.560	4.0	148.0779	26.02	-2.13	134360.400	4.0	201892.440	5.0
147.7908	9.01	-1.67	202480.260	3.0	270143.460	2.0	148.0847	23.01	-5.82	208.890	3.0	67737.800	2.0
147.7929	28.01	-3.05	66579.710	1.5	134241.960	5.0	148.0876	27.01	-5.94	13261.100	2.0	80788.700	2.0
147.7932	27.01	-5.79	13404.600	1.0	81066.700	0.5	148.0879	12.01	-1.92	35669.310	5.0	103196.750	5.0
147.7947	25.02	-2.35	114287.910	2.5	181949.340	2.5	148.0924	27.02	-2.03	79425.300	2.5	146950.700	2.5
147.7997	12.01	-2.54	35760.880	1.5	103420.000	1.5	148.0932	23.02	-1.54	88327.960	3.5	155853.000	2.5
147.8004	12.01	-1.59	35760.880	1.5	103419.700	2.5	148.0961	28.01	-6.06	8393.900	4.5	75917.630	3.5
147.8035	26.01	-2.32	18886.750	5.5	86544.140	1.5	148.0970	26.01	-5.97	8391.920	2.5	75919.210	2.5
147.8116	24.02	-2.49	71321.800	3.0	138975.500	3.0	148.0980	38.01	-5.65	0.000	0.0	67522.856	0.0
147.8119	23.02	-2.81	88327.960	3.5	155981.500	3.5	148.0982	28.01	-2.50	54176.260	5.0	121699.020	1.5
147.8131	24.03	-3.69	164920.000	3.5	232573.000	2.5	148.0992	25.02	-3.44	68899.200	4.5	136421.500	5.5
147.8231	29.01	-1.67	71493.680	2.0	139142.100	2.0	148.0999	28.01	-3.91	55299.650	4.5	122821.630	5.5
147.8253	28.02	-3.93	78303.100	2.0	145590.500	1.0	148.0999	6.00	-3.35	21648.010	0.0	89170.000	1.0
147.8291	26.01	-4.45	7955.240	3.5	75600.930	3.5	148.1026	26.02	-3.39	115289.910	5.0	182810.660	5.0
147.8323	27.02	-4.50	105965.100	2.5	173609.300	1.5	148.1058	29.02	-1.89	68963.600	2.5	136482.900	1.5
147.8323	27.02	-4.50	105965.100	2.5	173609.300	1.5	148.1088	28.01	-1.07	51045.460	4.5	118563.390	3.5
147.8323	27.02	-1.85	105965.100	2.5	173609.300	1.5	148.1114	6.00	-2.90	21648.010	0.0	89164.760	1.0
147.8334	29.02	-2.61	68963.600	2.5	136607.300	2.5	148.1122	26.01	-6.19	0.000	4.5	67516.370	5.5
147.8350	26.04	-1.59	187162.000	3.0	254805.000	2.0	148.1165	27.02	-2.57	71623.100	6.5	139137.500	5.5
147.8367	27.02	1.84	103386.700	4.5	171028.900	5.5	148.1174	26.02	-0.99	69695.730	4.0	137209.730	4.0
147.8421	7.01	-4.82	144187.940	2.0	21827.670	2.0	148.1236	29.02	-0.32	80305.200	1.5	147816.400	1.5
147.8447	9.02	-2.27	389737.630	5.0	457376.180	5.0	148.1282	13.03	-0.33	619947.700	0.0	687456.800	1.0
147.8453	25.01	-2.39	14781.190	2.0	82419.480	3.0	148.1286	25.02	-5.03	43602.500	3.5	111111.390	4.5
147.8474	9.02	-1.94	390077.800	2.5	457715.100	2.5	148.1348	26.01	-3.42	25981.650	3.5	93487.710	3.5
147.8529	9.02	-2.57	390080.300	1.5	457715.100	2.5	148.1350	25.01	-0.95	14593.820	3.0	82099.820	4.0
147.8533	26.02	-5.25	21699.900	3.0	89334.510	2.0	148.1379	9.02	-2.92	390210.430	3.5	457715.100	2.5
147.8542	26.02	-6.38	21857.200	2.0	89491.390	1.0	148.1413	26.01	-9.81	25981.650	3.5	93484.750	4.5
147.8608	23.01	-6.81	106.630	2.0	67737.800	2.0	148.1429	28.01	-1.78	67880.160	2.5	135382.530	1.5
147.8691	28.02	-2.88	76237.800	3.0	143865.200	3.0	148.1433	26.01	-2.90	18886.750	5.0	86388.980	5.0
147.8725	25.02	-2.68	112057.800	3.5	179683.100	4.5	148.1439	26.01	-3.36	13669.900	3.5	83871.310	4.5
147.8725	29.01	-3.11	71493.680	2.0	139119.500	3.0	148.1452	6.00	-3.50	21648.010	0.0	89149.350	1.0
147.8765	25.04	-1.81	177862.000	3.5	245486.000	2.5	148.1498	26.01	-4.00	16369.390	3.5	83868.650	2.5
147.8796	26.02	-4.49	21462.200	4.0	89084.790	3.0	148.1516	26.02	-1.96	90483.590	3.0	157982.000	3.0
147.8811	26.02	-2.48	132079.910	3.0	199701.820	3.0	148.1554	29.01	-2.51	71531.500	3.0	139028.200	2.0
147.8815	26.02	-3.36	132262.660	6.0	199884.390	5.0	148.1560	28.01	-1.55	66571.340	2.5	134067.760	1.5
147.8845	26.02	-3.20	73849.100	1.0	141469.450	1.0	148.1569	24.04	-0.47	167184.000	1.0	234680.000	0.0
147.8885	9.02	-2.00	390976.350	1.5	458594.860	2.5	148.1663	25.01	-8.39	27589.030	2.0	95080.760	1.0
147.8914	26.02	-3.10	118686.250	4.0	186303.440	3.0	148.1675	26.02	-0.45	134937.840	2.0	202429.040	1.0
147.8939	26.01	-7.65	384.770	3.5	68000.820	4.5	148.1744	28.01	-1.50	66579.710	1.5	134067.760	1.5
147.8941	23.02	-3.42	87880.850	2.5	155496.800	1.5	148.1753	29.01	-3.29	71493.680	2.0	138981.300	2.0
147.8989	26.02	-4.20	76956.790	3.0	144570.530	3.0	148.1755	29.01	-3.23	73101.870	1.0	140589.400	0.0
147.9072	26.02	-2.64	132785.360	4.0	200395.330	5.0	148.1763	6.00	-0.40	10192.630	2.0	77679.820	2.0
147.9073	26.02	-4.25	63425.170	6.0	131035.070	7.0	148.1771	29.01	-3.08	68850.060	0.0	136336.880	1.0
147.9115	26.01	-4.69	25787.600	1.5	93395.600	2.5	148.1798	27.02	-1.70	103593.700	2.5	171079.300	3.5
147.9117	30.02	-4.11	237642.700	3.0	305250.600	3.0	148.1798	27.02	-1.70	103593.700	2.5	171079.300	3.5
147.9134	26.02	-2.94	134549.000	3.0	202156.130	2.0	148.1798	27.02	-1.73	103593.700	2.5	171079.300	3.5
147.9142	26.02	-3.97	134549.380	1.0	202156.130	2.0	148.1883	28.01	-1.25	66571.340	2.5	134053.050	2.5
147.9151	25.01	-2.92	14781.190	2.0	82387.530	3.0	148.1890	26.02	-1.90	134549.000	3.0	202030.380	3.0
147.9205	10.01	-2.50	246415.040	1.5	314018.940	5.0	148.1899	28.01	-1.90	53634.620	1.5	121115.590	1.5
147.9254	18.02	-3.83	204649.240	2.0	272250.900	3.0	148.1905	27.02	0.95	103245.000	5.5	170725.700	6.5
147.9290	26.04	-1.21	196845.000	4.0	264445.000	4.0	148.1970	23.02	-3.04	89193.470	1.5	156671.200	2.5
147.9307	25.01	-2.64	14593.820	3.0	82193.040	2.0	148.1978	9.02	-2.69	390077.800	2.5	457555.170	1.5
147.9314	26.02	-4.88	132785.360	4.0	200384.280	3.0	148.1980	26.02	-6.15	21857.200	2.0	89334.510	2.0
147.9358	26.02	-2.36	132104.940	2.0	199701.820	3.0	148.1980	28.01	-1.05	53634.620	1.5	121111.900	5.5
147.9439	28.01	-1.23	53634.620	1.5	121227.800	2.5	148.1980	18.01	-3.71	143107.600	2.5	210584.880	1.5
147.9474	28.01	-1.85	68735.980	2.5	136327.550	1.5	148.2033	9.02	-2.32	390080.300	1.5	457555.170	1.5
147.9486	28.01	-2.21	52205.950	3.5	119796.980	2.5	148.2067	28.01	-2.42	66579.710	1.5	134053.050	2.5
147.9539	23.02	-4.86	85524.000	2.5	153112.600	3.5	148.2077	27.02	-2.68	72270.500	3.5	139743.400	2.5
147.9542	23.03	-2.42	148369.200	4.0	215957.700	3.0	148.2131	26.02	-3.83	151534.130	3.0	219004.530	4.0
147.9564	23.02	-4.49	42267.400	2.5	109854.870	3.5	148.2137	26.02	-3.03	114948.550	3.0	182418.700	4.0
147.9593	26.02	-1.16											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
148.2890	12.01	-1.62	35760.880	1.5	103196.750	.5
148.2918	26.02	-1.81	120697.100	1.0	188131.700	1.0
148.2923	9.02	-2.93	390120.770	.5	457555.170	1.5
148.2969	26.01	-5.65	26055.400	2.5	93487.710	3.5
148.3024	28.01	-3.82	55417.830	3.5	122847.600	3.5
148.3026	26.02	-4.05	117521.910	4.0	184951.620	3.0
148.3098	26.02	-2.64	77075.300	1.0	144501.740	2.0
148.3212	10.01	-3.21	246597.710	.5	314018.940	.5
148.3217	25.04	.35	183528.000	2.5	250949.000	3.5
148.3231	28.02	-2.86	71067.000	3.0	138487.400	3.0
148.3250	28.01	-2.81	55417.830	3.5	122837.330	4.5
148.3250	18.01	-2.39	143107.600	2.5	210527.100	2.5
148.3257	18.02	-3.40	204649.240	2.0	272068.450	1.0
148.3261	30.02	-3.01	147921.500	2.0	215340.500	2.0
148.3284	10.01	-2.79	251522.120	1.5	318940.080	1.5
148.3286	28.01	-6.00	23108.280	2.5	90526.180	2.5
148.3305	26.02	-4.14	83237.860	3.0	150654.900	3.0
148.3322	9.02	-2.18	390976.350	1.5	458392.610	1.5
148.3345	23.02	-2.70	85524.000	2.5	152939.200	2.5
148.3373	26.01	-2.03	25981.650	3.5	93395.600	2.5
148.3411	26.02	-4.77	120697.100	1.0	188109.320	0.0
148.3419	25.01	-2.14	14781.190	2.0	82193.040	2.0
148.3422	28.02	-4.04	71841.900	1.0	139253.600	2.0
148.3456	28.03	-1.94	120901.800	3.5	188311.940	2.5
148.3479	26.02	-2.13	70694.030	5.0	138103.120	4.0
148.3503	10.01	-3.12	224087.020	1.5	291495.040	2.5
148.3547	18.01	-4.95	135601.650	.5	203007.690	1.5
148.3554	28.01	-1.82	52738.450	2.5	120144.170	2.5
148.3561	18.01	-2.78	143107.600	2.5	210512.980	1.5
148.3575	28.01	-2.70	71493.680	2.0	138898.430	1.0
148.3647	27.02	-2.27	72341.900	1.5	139743.400	2.5
148.3659	26.02	-3.55	118867.870	1.0	186268.790	2.0
148.3679	25.01	-2.27	14593.820	3.0	81993.850	4.0
148.3688	23.02	-2.29	88944.380	2.5	156344.000	1.5
148.3695	26.02	-2.41	77102.430	2.0	144501.740	2.0
148.3715	12.02	-2.65	467378.500	1.0	534776.900	2.0
148.3816	24.01	-7.30	0.000	2.5	67393.800	3.5
148.3820	29.02	-4.48	80422.800	.5	147816.400	1.5
148.3882	18.02	-3.81	204797.370	3.0	272188.160	2.0
148.3891	28.02	-3.28	63472.600	2.0	130863.000	1.0
148.3893	27.02	-2.86	79425.300	2.5	146815.600	3.5
148.3920	27.02	-3.37	72341.900	1.5	139731.000	.5
148.3940	26.02	-4.54	151534.900	2.0	218923.080	3.0
148.3959	24.01	-6.43	0.000	2.5	67387.300	2.5
148.4001	29.02	-1.23	77967.600	2.5	145353.000	1.5
148.4012	26.02	-5.55	21699.900	3.0	89084.790	3.0
148.4030	27.01	-5.81	13404.600	1.0	80788.700	2.0
148.4071	24.02	-3.28	70980.200	1.0	138362.400	2.0
148.4093	18.01	-4.72	135085.920	1.5	202467.140	1.5
148.4122	24.01	-6.17	0.000	2.5	67379.920	1.5
148.4140	28.01	-4.03	70635.460	2.5	138014.530	2.5
148.4154	23.01	-3.96	8841.970	3.0	76220.400	2.0
148.4162	26.02	-2.28	70725.010	3.0	138103.120	4.0
148.4166	27.01	-5.80	13593.500	0.0	80971.400	1.0
148.4166	27.01	-5.80	13593.500	0.0	80971.400	1.0
148.4168	26.02	-1.39	115474.250	6.0	182852.050	7.0
148.4171	29.01	-2.77	69704.800	4.0	137082.500	5.0
148.4221	26.02	-2.86	76956.790	3.0	144332.210	4.0
148.4227	28.01	-1.37	66579.710	1.5	133954.850	.5
148.4244	26.02	-1.20	70728.750	4.0	138103.120	4.0
148.4250	27.01	-4.76	18338.500	1.0	85712.600	2.0
148.4276	26.02	-1.92	69836.830	3.0	137209.730	4.0
148.4279	29.01	-4.29	69704.800	4.0	137077.600	3.0
148.4283	28.01	-4.88	55417.830	3.5	122790.410	4.5
148.4287	28.02	-1.94	114109.900	3.0	181482.300	4.0
148.4329	26.02	-3.17	134549.000	3.0	201919.530	4.0
148.4336	18.01	-1.70	143107.600	2.5	210477.770	3.5
148.4378	27.02	-3.08	105008.700	3.5	172377.000	3.5
148.4426	9.02	-2.74	390080.300	1.5	457446.390	.5
148.4458	25.01	-3.28	39808.140	3.0	107172.800	3.0
148.4510	15.03	-2.02	189389.000	1.0	256751.300	2.0
148.4510	15.03	-1.02	189389.000	2.0	256751.300	2.0
148.4510	15.03	-1.10	189389.000	3.0	256751.300	2.0
148.4519	28.01	-1.57	68965.650	1.5	136327.550	1.5
148.4546	26.02	-4.68	49576.900	1.0	116937.570	1.0
148.4548	26.02	-4.98	70694.030	5.0	138054.590	5.0
148.4561	24.04	-4.44	167497.000	2.0	234857.000	2.0
148.4562	9.02	-2.46	390976.350	1.5	458336.270	.5
148.4573	25.01	-4.10	39813.380	2.0	107172.800	3.0
148.4574	27.02	-1.84	73286.000	4.5	140645.400	3.5
148.4593	28.01	-2.63	66571.340	2.5	133929.880	3.5
148.4624	18.01	-2.01	143107.600	2.5	210464.710	2.5
148.4631	28.02	-2.26	75646.900	4.0	143003.700	4.0
148.4679	23.02	-2.37	88327.960	3.5	155682.600	3.5
148.4766	9.02	-4.43	348817.600	1.5	416168.300	1.5
148.4834	28.02	-2.92	62606.300	3.0	129953.900	3.0
148.4841	29.02	-2.31	80305.200	1.5	147652.500	.5
148.4868	20.02	-1.57	204842.640	2.0	272188.700	1.0
148.4890	9.02	-2.04	391047.540	.5	458392.610	1.5
148.4904	24.01	-7.86	0.000	2.5	67344.420	2.5
148.4958	14.03	-2.04	265417.950	.5	332759.920	1.5
148.4960	9.02	-2.51	416168.300	1.5	483510.170	2.5
148.4972	26.02	-2.19	132564.710	5.0	199906.030	6.0
148.4992	26.02	-3.19	135088.600	0.0	202429.040	1.0
148.4997	26.01	-3.36	26055.400	2.5	93395.600	2.5
148.5014	18.01	-1.74	143107.600	2.5	210447.010	3.5
148.5030	20.02	-2.46	279353.640	1.0	346692.340	0.0
148.5038	23.02	-3.83	89005.640	.5	156344.000	1.5
148.5058	9.02	-4.12	391257.420	2.5	458594.860	2.5
148.5090	24.03	-1.95	110700.000	3.5	178036.000	4.5
148.5096	9.02	-2.36	416168.300	2.5	483521.140	3.5
148.5121	18.01	-4.11	135085.920	1.5	202420.490	.5
148.5129	24.01	-6.90	0.000	2.5	67334.200	3.5
148.5139	26.02	-2.88	115110.920	4.0	182444.700	3.0
148.5142	25.01	-2.41	14325.860	4.0	81659.500	3.0
148.5168	26.02	-1.68	122346.610	3.0	189679.070	3.0
148.5185	26.02	-4.81	63425.170	6.0	130756.840	6.0
148.5185	28.01	-1.72	66571.340	2.5	133903.000	1.5
148.5271	28.01	-4.66	8393.900	4.5	75721.680	5.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
148.5284	23.02	-4.39	86938.010	2.5	154265.200	3.5
148.5312	14.03	-2.34	265417.950	.5	332743.870	.5
148.5313	25.01	-4.04	36274.290	2.0	103600.170	2.0
148.5314	26.02	-2.61	70728.750	4.0	138054.590	5.0
148.5319	9.02	-2.88	390120.770	.5	457446.390	.5
148.5322	29.01	-1.92	71493.680	2.0	138819.170	3.0
148.5328	28.01	-2.28	68965.650	1.5	136290.830	.5
148.5338	9.02	-3.60	416185.420	2.5	483510.170	2.5
148.5370	28.01	-1.15	66579.710	1.5	133903.000	1.5
148.5378	28.01	-1.44	68965.650	1.5	136288.600	2.5
148.5383	28.02	-3.97	76237.800	3.0	143560.500	2.0
148.5414	26.02	-4.75	49576.900	1.0	116898.220	2.0
148.5428	11.01	-2.07	297639.340	2.0	364960.000	1.0
148.5430	28.01	-3.67	32523.540	3.5	99844.130	3.5
148.5450	26.02	-4.49	132564.710	5.0	199884.390	5.0
148.5475	28.01	-3.54	68735.980	2.5	136054.500	1.5
148.5482	17.03	-2.00	181643.000	2.0	248961.200	3.0
148.5491	15.01	-1.70	21576.200	0.0	88894.000	1.0
148.5521	26.02	-1.66	120826.170	2.0	188142.640	2.0
148.5563	28.01	-4.91	68735.980	2.5	136050.530	2.5
148.5563	26.01	-2.26	26170.190	5.5	93484.750	4.5
148.5577	28.02	-2.18	113705.000	4.0	181018.900	5.0
148.5610	29.01	-2.36	68447.570	3.0	135759.970	2.0
148.5678	29.01	-2.50	66418.520	2.0	133727.870	2.0
148.5712	26.02	-2.08	115110.920	4.0	182418.700	4.0
148.5741	28.02	-2.50	62606.300	3.0	129912.800	2.0
148.5762	26.02	-1.45	120826.170	2.0	188131.700	1.0
148.5784	25.02	-4.50	110172.690	1.5	177477.230	2.5
148.5846	26.02	-2.64	115110.920	4.0	182412.650	4.0
148.5863	26.02	-2.32	79860.420	5.0	147161.360	4.0
148.5900	24.02	-4.93	71676.200	4.0	138975.500	3.0
148.5928	26.02	-2.19	115110.920	4.0	182408.910	3.0
148.5975	9.02	-2.42	390080.300	1.5	457376.180	.5
148.5985	28.01	-3.52	68735.980	2.5	136031.430	2.5
148.5991	25.01	-2.45	0.000	3.0	67295.160	4.0
148.6012	23.02	-3.13	88559.080	1.5	155853.000	2.5
148.6064	25.01	-1.04	14901.180	1.0	82193.040	2.0
148.6086	28.01	-2.33	66571.340	2.5	133862.210	1.5
148.6095	26.02	-4.69	63466.390	5.0	130756.840	6.0
148.6101	27.02	.17	103245.000	5.5	170535.200	4.5
148.6101	27.0					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
148.7792	15.03	-4.51	189389.000	2.0	256602.700	1.0	149.0648	26.01	-8.55	20516.980	2.5	87601.900	1.5
148.7796	23.02	-1.81	89457.670	2.5	156671.200	2.5	149.0649	28.01	-4.51	68965.650	1.5	136050.530	2.5
148.7796	18.01	-2.83	143371.350	1.5	210584.880	1.5	149.0655	28.01	-3.44	67880.160	2.5	134964.780	1.5
148.7832	26.02	-3.59	135217.170	1.0	202429.040	1.0	149.0676	9.01	-4.47	202480.260	3.0	269563.930	2.0
148.7853	28.01	-2.57	67031.020	.5	134241.960	.5	149.0685	26.02	-3.84	121941.290	4.0	189024.530	5.0
148.7854	27.02	-1.86	103593.700	2.5	170804.600	1.5	149.0786	25.02	-3.85	110398.500	2.5	177477.230	2.5
148.7878	26.02	-2.53	115642.230	7.0	182852.050	7.0	149.0837	25.03	-2.80	120603.100	4.0	186779.500	4.0
148.7892	26.02	-4.33	126390.570	1.0	193599.740	1.0	149.0853	30.02	-1.85	233610.400	2.0	300688.100	3.0
148.7896	26.01	-4.79	8391.920	2.5	75600.930	3.5	149.0853	28.02	-1.58	79250.800	4.0	146326.500	5.0
148.7909	28.01	-3.78	68735.980	2.5	135944.400	3.5	149.0855	12.02	-3.74	479456.000	1.0	546531.600	1.0
148.7920	23.01	-3.89	8640.210	2.0	75848.130	3.0	149.0863	23.01	-4.59	8640.210	2.0	75715.450	1.0
148.7954	27.02	-1.02	73286.000	4.5	140492.400	4.5	149.0870	26.02	-1.76	121949.620	5.0	189024.530	5.0
148.7964	29.01	-1.37	69867.810	2.0	137073.750	2.0	149.0926	27.02	-2.12	73286.000	4.5	140358.400	4.5
148.7991	26.02	-4.69	126390.570	1.0	193595.300	0.0	149.0935	28.01	-4.20	9330.040	3.5	76402.030	2.5
148.7998	15.00	-2.05	11376.400	2.5	78580.800	1.5	149.0951	30.02	-5.33	80850.200	1.0	147921.500	2.0
148.8080	26.02	-1.83	90483.590	3.0	157684.300	2.0	149.0952	25.02	-2.26	71564.210	1.5	138635.460	2.5
148.8105	29.01	-1.27	71919.930	3.0	139119.500	3.0	149.0967	26.02	-1.91	121941.290	4.0	189011.840	4.0
148.8177	24.02	-2.81	71166.100	2.0	138362.400	2.0	149.0969	24.01	-6.29	0.000	2.5	67070.480	1.5
148.8349	26.02	-4.14	115642.230	7.0	182830.760	6.0	149.0987	26.02	-3.26	70694.030	5.0	137763.700	5.0
148.8386	25.01	-3.07	14593.820	3.0	81780.700	3.0	149.1046	25.04	-4.6	184633.000	5.5	251700.000	4.5
148.8420	26.02	-2.52	119697.640	2.0	186882.980	3.0	149.1067	28.01	-1.84	55018.710	2.5	122084.790	1.5
148.8432	28.02	-1.0	116674.500	4.0	183859.300	3.0	149.1068	26.04	-3.60	196845.000	4.0	263911.000	3.0
148.8540	26.02	-5.3	134976.220	3.0	202156.130	2.0	149.1076	25.01	-4.03	14593.820	3.0	81659.500	3.0
148.8579	9.02	-4.09	349007.250	2.5	416185.420	2.5	149.1087	18.01	-4.90	142186.270	4.5	209251.460	3.5
148.8614	26.01	-5.79	2430.080	3.5	69606.640	3.5	149.1091	23.01	-3.19	3162.800	5.0	70227.800	5.0
148.8637	29.01	-1.07	66418.520	2.0	133594.050	3.0	149.1106	28.02	-1.40	75123.800	5.0	142168.100	6.0
148.8732	28.01	-9.4	52738.450	2.5	119909.720	1.5	149.1125	23.02	-3.70	85875.740	3.5	152939.200	2.5
148.8774	6.01	-1.60	110624.170	.5	177793.540	1.5	149.1131	18.01	-3.09	135085.920	1.5	202149.110	2.5
148.8795	27.02	-3.57	105965.100	2.5	173133.500	1.5	149.1133	26.02	-2.27	121949.620	5.0	189011.840	4.0
148.8812	18.01	-2.89	135085.920	1.5	202253.590	1.5	149.1168	28.01	-4.57	55018.710	2.5	122080.250	2.5
148.8823	29.01	-1.06	69867.810	2.0	137034.970	3.0	149.1171	29.01	-2.45	71919.930	3.0	138981.300	2.0
148.8826	28.01	-5.33	23108.280	2.5	90275.300	3.5	149.1186	27.02	-2.68	73726.600	2.5	140787.300	2.5
148.8849	28.01	-4.89	68735.980	2.5	135901.960	2.5	149.1202	10.03	-1.95	576915.000	1.5	643975.000	2.5
148.8895	28.01	-1.05	66571.340	2.5	133735.260	2.5	149.1202	10.03	-4.31	576915.000	2.5	643975.000	2.5
148.8901	28.01	-6.68	66571.340	2.5	133734.980	3.5	149.1218	26.02	-5.56	135096.840	3.0	202156.130	2.0
148.8958	9.02	-4.72	349007.250	2.5	416168.300	1.5	149.1291	25.04	-1.16	177314.000	2.5	244370.000	3.5
148.8985	26.02	-3.48	76956.790	3.0	144116.640	3.0	149.1307	28.01	-1.84	54262.630	3.5	121317.890	3.5
148.9054	28.01	-1.91	55018.710	2.5	122175.420	2.5	149.1317	26.01	-7.79	20516.980	2.5	87571.800	2.5
148.9066	26.02	-2.35	122628.340	2.0	189784.520	2.0	149.1325	10.01	-2.74	246597.710	.5	313652.170	1.5
148.9076	18.01	-2.21	143371.350	1.5	210527.100	2.5	149.1331	27.02	-3.19	72083.300	4.5	139137.500	5.5
148.9080	28.01	-1.10	66579.710	1.5	133735.260	2.5	149.1332	26.02	-1.15	134976.220	3.0	202030.380	3.0
148.9090	15.03	-7.2	189389.000	1.0	256544.100	0.0	149.1360	15.00	.37	11376.400	2.5	78429.300	3.5
148.9139	26.02	-4.40	124854.040	3.0	192006.940	2.0	149.1390	29.01	-2.83	69867.810	2.0	136919.350	3.0
148.9168	18.01	-3.75	142186.270	4.5	209337.870	4.5	149.1408	26.02	-3.39	122628.340	2.0	189679.070	3.0
148.9192	23.02	-2.32	89193.470	1.5	156344.000	1.5	149.1484	27.02	-3.21	71873.700	5.5	138921.000	4.5
148.9194	6.01	-1.31	110624.170	.5	177774.590	.5	149.1503	26.02	.13	129854.800	6.0	196901.270	5.0
148.9203	26.02	-1.29	135279.040	2.0	202429.040	1.0	149.1507	23.02	-3.41	87218.920	3.5	154265.200	3.5
148.9225	25.02	-4.34	110036.140	.5	177185.180	.5	149.1538	25.02	-3.20	68899.200	4.5	135944.080	4.5
148.9228	27.02	-1.35	103655.700	1.5	170804.600	1.5	149.1585	25.02	-4.86	43668.840	2.5	110711.620	3.5
148.9237	27.02	-8.8	103386.700	4.5	170535.200	4.5	149.1588	28.01	-2.03	66571.340	2.5	133613.990	1.5
148.9237	27.02	-8.8	103386.700	4.5	170535.200	4.5	149.1588	26.02	-2.48	132659.170	4.0	199701.820	3.0
148.9237	27.02	-8.7	103386.700	4.5	170535.200	4.5	149.1591	25.03	-2.71	119961.500	3.0	187004.000	3.0
148.9257	30.02	-1.54	78096.300	3.0	145243.900	2.0	149.1633	24.02	-3.47	71321.800	3.0	138362.400	2.0
148.9300	26.02	-2.48	132659.170	4.0	199804.810	4.0	149.1639	25.02	-2.58	111776.600	1.5	178816.960	2.5
148.9304	15.01	-1.84	65252.250	1.0	132397.700	2.0	149.1689	28.01	-1.55	71457.740	3.5	138495.840	4.5
148.9364	26.02	-3.70	82382.870	3.0	149525.630	2.0	149.1707	26.02	-2.67	116419.390	2.0	183456.690	3.0
148.9389	18.01	-2.88	143371.350	1.5	210512.980	1.5	149.1711	23.02	-4.22	88944.380	2.5	155981.500	3.5
148.9401	28.01	-4.61	70635.460	2.5	137776.550	3.5	149.1719	28.01	-1.97	67031.020	.5	134067.760	1.5
148.9414	26.02	-3.17	116316.630	5.0	183457.150	4.0	149.1740	26.02	-1.94	121919.740	3.0	188955.560	3.0
148.9459	25.02	-3.79	43573.160	4.5	110711.620	3.5	149.1759	26.02	-1.89	70728.750	4.0	137763.700	5.0
148.9494	28.02	-3.85	71841.900	1.0	138978.800	1.0	149.1774	28.01	-2.08	66579.710	1.5	133613.990	1.5
148.9532	9.02	-3.00	391257.420	2.5	458392.610	1.5	149.1791	27.02	-2.65	103501.700	3.5	170535.200	4.5
148.9538	26.01	-2.86	26352.800	4.5	93487.710	3.5	149.1791	27.02	-2.65	103501.700	3.5	170535.200	4.5
148.9561	26.02	-2.20	121008.780	3.0	188142.640	2.0	149.1791	27.02	-2.65	103501.700	3.5	170535.200	4.5
148.9587	18.02	-4.89	204563.530	1.0	271696.220	0.0	149.1824	28.01	-1.43	54262.630	3.5	121294.670	4.5
148.9600	23.01	-7.71	11908.270	2.0	79040.400	3.0	149.1831	25.01	-2.40	14781.190	2.0	81812.900	2.0
148.9604	26.01	-4.08	26352.800	4.5	93484.750	4.5	149.1842	26.02	-4.30	129854.800	6.0	196886.010	6.0
148.9665	26.02	-2.44	76956.790	3.0	144085.970	4.0	149.1853	26.02	-4.20	82494.880	1.0	149525.630	2.0
148.9674	26.02	-2.03	115289.910	5.0	182418.700	4.0	149.1901	28.01	-5.1	55018.710	2.5	122047.290	3.5
148.9678	28.01	-2.59	53037.930	2.5	120166.520	1.5	149.1943	26.02	-1.60	129854.800	6.0	196881.470	7.0
148.9691	24.04	-1.18	167497.000	2.0	234625.000	1.0	149.1981	22.02	-1.25	10721.200	2.0	77746.180	3.0
148.9692	6.01	-9.1	110665.560	1.5	177793.540	1.5	149.2018	26.02	-3.21	73727.640	2.0	140750.980	2.0
148.9730	28.01	-1.12	55018.710	2.5	122144.990	2.5	149.2029	18.02	-4.38	204649.240	2.0	271672.080	1.0
148.9769	15.01	-1.30	65273.180	2.0	132397.700	2.0	149.2094	26.01	-7.52	20516.980	2.5	87536.900	3.5
148.9770	9.02	-2.47	390834.600	2.5	457959.070	3.5	149.2104	26.02	-2.49	132785.360	4.0	199804.810	4.0
148.9808	26.02	-3.18	115289.910	5.0	182412.650	4.0	149.2150	27.02	-1.93	106591.900	1.5	173609.300	1.5
148.9824	24.03	-5.57	23244.000	4.5	300366.000	3.5	149.2156	29.01	-6.1	72724.000	2.0	139741.100	3.0
148.9861													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
149.2945	26.02	-2.02	116475.440	3.0	183457.150	4.0	149.5204	9.02	-3.31	390834.600	2.5	457715.100	2.5
149.2948	28.01	-5.17	29070.930	1.5	96052.480	2.5	149.5213	26.02	-0.01	114948.550	3.0	181828.660	2.0
149.2954	25.00	-2.93	0.000	2.5	66981.300	3.5	149.5220	24.01	-7.38	19631.280	1.5	86511.080	1.5
149.2955	26.02	-2.55	116475.440	3.0	183456.690	3.0	149.5253	25.01	-0.82	14781.190	2.0	81659.500	3.0
149.2990	15.00	-2.23	11360.800	1.5	78340.500	2.5	149.5280	26.02	-1.39	135279.040	2.0	202156.130	2.0
149.3022	28.01	-4.80	54262.630	3.5	121240.900	3.5	149.5280	26.02	-2.28	114948.550	3.0	181828.670	4.0
149.3033	25.02	-3.78	68892.000	3.5	135869.760	3.5	149.5303	24.01	-5.52	19631.280	1.5	86507.380	2.5
149.3074	25.02	-3.34	110711.620	3.5	177687.540	3.5	149.5335	26.02	-3.59	122921.370	1.0	189796.030	1.0
149.3078	28.01	-3.90	70778.120	3.5	137753.870	4.5	149.5343	27.01	-1.51	950.300	3.0	67824.600	2.0
149.3085	28.01	-4.12	67694.640	2.5	134670.070	1.5	149.5354	29.02	-1.78	128679.400	2.5	195553.200	2.5
149.3087	9.01	-1.78	176493.930	2.0	243469.270	3.0	149.5382	28.01	-1.48	66571.340	2.5	133443.890	2.5
149.3110	12.02	-1.52	478846.100	2.0	545820.400	2.0	149.5395	28.01	-1.63	67031.020	2.5	133903.000	1.5
149.3155	27.02	-2.06	72341.900	1.5	139314.200	2.5	149.5420	25.02	-3.19	110398.500	2.5	177269.340	1.5
149.3197	28.01	-4.94	55299.650	4.5	122270.050	3.5	149.5423	29.01	-0.48	71531.500	3.0	138402.200	3.0
149.3200	3.01	-0.75	494273.000	0.0	561243.265	0.0	149.5486	26.02	-0.12	121241.670	4.0	188109.580	3.0
149.3223	28.01	-4.80	68131.210	3.5	135100.450	3.5	149.5493	24.02	-4.01	43286.400	4.0	110154.000	4.0
149.3232	9.01	-1.92	176493.930	2.0	243462.780	2.0	149.5540	18.01	-4.18	135601.650	1.5	202467.140	1.5
149.3252	9.02	-2.59	391626.910	3.5	458594.860	2.5	149.5569	28.01	-1.87	66579.710	1.5	133443.890	2.5
149.3273	6.00	-3.12	21648.010	0.0	88615.010	1.0	149.5592	26.02	-2.78	122921.370	1.0	189784.520	2.0
149.3301	26.02	-1.90	73727.660	2.0	140693.360	3.0	149.5598	25.01	-3.31	43131.400	2.0	109994.300	1.0
149.3314	28.01	-2.97	54262.630	3.5	121227.800	2.5	149.5610	18.01	-2.06	144709.910	2.5	211572.270	1.5
149.3318	9.01	-2.15	176493.930	2.0	243458.900	1.0	149.5649	28.02	-0.02	116192.100	4.0	183052.700	4.0
149.3331	28.02	-4.68	71067.000	3.0	138031.400	4.0	149.5662	15.01	-4.91	65273.180	2.0	132133.200	3.0
149.3337	15.00	-1.98	11376.400	2.5	78340.500	2.5	149.5693	18.02	-3.07	204649.240	2.0	271507.880	2.0
149.3343	26.02	-1.92	116467.410	4.0	183431.280	5.0	149.5698	30.02	-2.01	147498.600	1.0	214357.000	1.0
149.3360	29.01	-4.52	71919.930	3.0	138883.000	4.0	149.5725	23.02	-1.95	88944.380	2.5	155801.600	1.5
149.3375	28.01	-3.90	68154.310	1.5	135116.720	2.5	149.5746	15.01	-1.89	65308.050	3.0	132164.300	2.0
149.3424	26.02	-2.51	69836.830	3.0	136797.050	3.0	149.5801	27.02	-1.41	103501.700	3.5	170355.500	2.5
149.3445	26.02	-3.59	69837.760	2.0	136797.050	3.0	149.5837	28.01	-2.17	55417.830	3.5	122270.050	3.5
149.3492	23.01	-4.83	2687.010	2.0	69644.200	3.0	149.5877	15.00	-7.69	11360.800	1.5	78211.200	2.5
149.3496	26.02	-2.48	69836.830	3.0	136793.820	2.0	149.5897	26.02	-2.31	122829.550	3.0	189679.070	3.0
149.3507	30.02	-1.58	147921.500	2.0	214878.000	3.0	149.5988	26.02	-1.0	130040.560	7.0	196886.010	6.0
149.3517	26.02	-2.42	69837.760	2.0	136793.820	2.0	149.6025	25.00	-7.55	0.000	2.5	66843.790	1.5
149.3541	26.02	-4.08	122829.550	3.0	189784.520	2.0	149.6050	27.02	-1.47	73540.200	3.5	140382.900	3.5
149.3566	25.01	-3.93	14325.860	4.0	81279.710	4.0	149.6086	28.01	-2.83	55299.650	4.5	122140.710	4.5
149.3585	26.02	-4.88	122843.030	1.0	189796.030	1.0	149.6090	26.02	-0.13	130040.560	7.0	196881.470	7.0
149.3603	27.02	-1.85	73540.200	3.5	140492.400	4.5	149.6099	25.02	-4.44	68892.000	3.5	135732.500	4.5
149.3628	26.02	-0.0	82333.920	3.0	149285.000	3.0	149.6115	26.02	-3.61	118163.560	2.0	185003.350	2.0
149.3634	25.01	-2.58	14781.190	2.0	81732.000	1.0	149.6121	25.02	-1.96	71395.270	1.5	138234.790	1.5
149.3634	25.01	-3.59	31514.350	4.0	98465.150	5.0	149.6132	11.02	-4.33	373633.000	1.5	440472.000	2.5
149.3656	25.01	-4.46	31514.350	4.0	98464.160	4.0	149.6162	27.02	-4.38	72083.300	4.5	138921.000	4.5
149.3709	28.01	-4.38	67694.640	2.5	134642.090	3.5	149.6163	25.00	-5.98	0.000	2.5	66837.640	2.5
149.3789	23.01	-3.82	2968.220	4.0	69912.100	4.0	149.6164	27.02	-1.85	105965.100	2.5	172802.700	2.5
149.3801	26.02	-2.10	134976.220	3.0	201919.530	4.0	149.6212	23.01	-4.84	2808.760	3.0	69644.200	3.0
149.3842	26.02	-3.18	122843.030	1.0	189784.520	2.0	149.6247	26.02	-2.40	70694.030	5.0	137527.920	4.0
149.3880	27.02	-2.08	73286.000	4.5	140225.800	3.5	149.6249	26.01	-3.96	27314.930	3.5	94148.710	4.5
149.3890	28.01	-2.84	54176.260	5.0	121115.590	1.5	149.6260	25.02	-4.17	68899.200	4.5	135732.500	4.5
149.3898	26.02	-2.54	135217.170	1.0	202156.130	2.0	149.6282	24.02	-5.20	43321.700	3.0	110154.000	4.0
149.3926	23.02	-1.83	88559.080	1.5	155496.800	1.5	149.6307	28.01	-2.39	67031.020	2.5	133862.210	1.5
149.3940	25.01	-3.67	43131.400	2.0	110068.500	2.0	149.6316	25.01	-2.41	14901.180	1.0	81732.000	1.0
149.3951	25.01	-3.82	39813.380	2.0	106750.000	2.0	149.6408	28.01	-2.69	67031.020	2.5	133857.730	2.5
149.3957	28.01	-4.35	68965.650	1.5	135901.960	2.5	149.6443	15.01	-6.62	65308.050	3.0	132133.200	3.0
149.3963	23.02	-2.59	87544.460	4.5	154480.500	4.5	149.6495	28.01	-5.66	29070.930	1.5	95893.760	1.5
149.3965	26.01	-2.22	16369.390	3.5	83305.370	3.5	149.6498	26.02	-2.12	135096.840	3.0	201919.530	4.0
149.3972	28.01	-3.04	54176.260	5.0	121111.900	5.0	149.6525	26.01	-1.13	25428.800	5.5	92250.270	6.5
149.4011	27.02	-4.60	105008.700	3.5	171942.600	4.5	149.6567	26.02	-3.52	70725.010	3.0	137544.600	2.0
149.4019	26.02	-1.69	135096.840	3.0	202030.380	3.0	149.6576	12.02	-4.24	467378.500	1.0	534197.700	1.0
149.4023	25.02	-2.75	111883.600	2.5	178816.960	2.5	149.6584	18.01	-4.79	135601.650	1.5	202420.490	1.5
149.4083	10.01	-3.33	251522.120	1.5	318452.820	1.5	149.6598	27.02	-3.45	73540.200	3.5	140358.400	4.5
149.4114	28.02	-1.54	75646.900	4.0	142576.200	5.0	149.6605	25.02	-4.07	68892.000	3.5	135709.900	2.5
149.4116	25.01	-4.84	0.000	3.0	66929.220	2.0	149.6605	22.02	-1.57	10603.600	1.0	77421.480	1.0
149.4118	28.01	-3.38	70778.120	3.5	137707.260	3.5	149.6686	29.01	-1.74	68850.060	0.0	135664.340	2.0
149.4130	28.01	-3.33	70778.120	3.5	137706.710	2.5	149.6724	26.01	-5.88	2837.940	2.5	69650.540	2.5
149.4149	28.01	-4.47	54262.630	3.5	121190.340	4.5	149.6741	25.01	-2.50	14901.180	1.0	81713.020	0.0
149.4165	28.01	-2.14	51045.460	4.5	117972.470	3.5	149.6793	26.02	-2.09	119982.260	1.0	186791.780	2.0
149.4169	28.01	-2.87	52738.450	2.5	119665.290	2.5	149.6808	14.02	-1.28	175336.260	2.0	242145.100	1.0
149.4199	27.02	-2.69	73861.800	1.5	140787.300	2.5	149.6822	28.01	-3.35	68156.570	1.5	134964.780	1.5
149.4236	28.01	-1.73	67031.020	5.0	133954.850	5.0	149.6845	28.02	-2.45	79143.300	2.0	145950.500	1.0
149.4245	25.01	-4.52	39826.570	1.0	106750.000	2.0	149.6867	23.02	-4.11	86306.400	4.5	153112.600	3.5
149.4339	9.02	-4.69	349266.200	3.5	416185.420	2.5	149.6883	20.02	-1.29	214334.060	2.0	281139.550	1.0
149.4342	28.01	-3.30	32499.530	4.5	99418.610	3.5	149.6928	25.02	-2.44	71831.980	2.5	138635.460	2.5
149.4348	27.02	-2.74	73726.600	2.5	140645.400	3.5	149.6935	26.02	-4.78	49576.900	1.0	116380.070	1.0
149.4371	28.01	-2.26	52738.450	2.5	119656.250	3.5	149.6941	26.02	-1.66	70725.010	3.0	137527.920	4.0
149.4372	9.02	-4.65	351330.800	1.5	418248.560	1.5	149.6951	25.01	-4.24	31661.720	3.0	98464.160	4.0
149.4387	26.02	-2.67	69695.730	4.0	136612.780	4.0	149.6974	25.01	-4.79	31661.720	3.0	98463.160	3.0
149.4401	26.02	-3.11	132785.360	4.0	199701.820	3.0	149.7002	25.02	-4.40	68892.000	3.5	135692.170	3.5
149.4404	23.01	-3.89	8841.970	3.0	75758.290	2.0	149.7025	26.02	-2.35	70728.750	4.0	137527.920	4.0
149.4411	25.03	-4.14											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
149.7948	24.04	-1.10	168099.000	3.0	234857.000	2.0	150.0258	25.01	-2.15	43339.100	2.0	109994.300	1.0
149.7957	28.01	-4.24	55417.830	3.5	122175.420	2.5	150.0272	27.02	-3.32	106954.700	2.5	173609.300	1.5
149.7959	25.01	-3.52	43311.000	1.0	110068.500	2.0	150.0272	27.02	-3.32	106954.700	2.5	173609.300	1.5
149.7970	10.03	-0.72	576915.000	1.5	643672.000	1.5	150.0272	27.02	-1.03	106954.700	2.5	173609.300	1.5
149.7970	10.03	-3.88	576915.000	2.5	643672.000	1.5	150.0287	26.02	-4.81	123750.390	3.0	190404.310	3.0
149.7971	28.01	-3.90	51557.850	3.5	118314.820	2.5	150.0314	26.02	-0.72	135239.740	4.0	201892.440	5.0
149.7974	26.02	-1.04	118246.520	3.0	185003.350	2.0	150.0316	25.01	-4.76	39826.570	1.0	106479.200	1.0
149.8002	28.01	-8.51	8393.900	4.5	75149.480	4.5	150.0331	18.01	-2.89	135601.650	5	202253.590	1.5
149.8097	26.02	-2.27	135279.040	2.0	202030.380	3.0	150.0336	26.01	-3.52	7955.240	3.5	74606.970	2.5
149.8120	23.01	-4.25	9097.810	4.0	75848.130	3.0	150.0364	27.02	-3.50	72270.500	3.5	138921.000	4.5
149.8143	23.01	-4.22	3162.800	5.0	69912.100	4.0	150.0377	17.03	-4.21	247575.100	1.0	314225.000	2.0
149.8256	26.02	-4.13	69788.190	1.0	136532.450	2.0	150.0382	24.01	-6.89	0.000	2.5	66649.710	1.5
149.8281	26.01	-0.83	25428.800	5.5	92171.950	4.5	150.0411	30.02	-0.61	80850.200	1.0	147498.600	1.0
149.8323	26.01	-4.99	20830.520	2.5	87571.800	2.5	150.0420	24.03	-0.85	233718.000	4.5	300366.000	3.5
149.8380	9.02	-2.73	390976.350	1.5	457715.100	2.5	150.0434	28.01	-0.81	1506.940	1.5	68154.310	1.5
149.8392	23.02	-0.71	88944.380	2.5	155682.600	3.5	150.0443	25.01	-2.29	43311.000	1.0	109958.000	0.0
149.8396	26.01	-3.87	25428.800	5.5	92166.810	5.5	150.0478	26.02	-3.47	93392.450	3.0	160037.900	2.0
149.8401	25.00	-6.33	0.000	2.5	66737.820	3.5	150.0488	26.02	0.08	130256.270	5.0	196901.270	5.0
149.8405	28.01	-2.69	54557.050	4.5	121294.670	4.5	150.0532	25.01	-4.50	0.000	3.0	66643.010	4.0
149.8414	29.01	-3.01	69704.800	4.0	136442.050	3.0	150.0538	28.01	-3.40	70635.460	2.5	137278.220	1.5
149.8434	28.01	-2.42	51557.850	3.5	118294.170	3.5	150.0540	25.01	-7.69	27588.230	3.0	94230.900	2.0
149.8466	26.02	-1.82	122944.150	4.0	189679.070	3.0	150.0558	25.01	-8.13	27589.030	2.0	94230.900	2.0
149.8497	25.02	-3.63	71395.270	5	138128.800	1.5	150.0595	26.01	-5.02	26055.400	2.5	92695.620	2.5
149.8520	25.01	-4.15	43696.190	3.0	110428.700	4.0	150.0652	28.01	-1.30	53365.170	4.5	120002.860	3.5
149.8576	28.01	-5.56	23796.180	1.5	90526.180	2.5	150.0751	28.01	-4.00	54557.050	4.5	121190.340	4.5
149.8576	25.04	-0.42	176937.000	1.5	243667.000	2.5	150.0831	26.02	-0.73	130256.270	5.0	196886.010	6.0
149.8582	26.02	-2.80	119982.260	1.0	186712.020	1.0	150.0838	28.01	-4.44	55417.830	3.5	122047.290	3.5
149.8584	25.02	-4.96	43668.840	2.5	110398.500	2.5	150.0857	27.02	-2.37	72341.900	1.5	138970.500	1.5
149.8590	25.01	-2.49	43339.100	2.0	110068.500	2.0	150.0890	26.02	-3.14	69837.760	2.0	136464.900	1.0
149.8640	24.01	-4.84	0.000	2.5	66727.160	2.5	150.0898	25.01	-5.11	14593.820	3.0	81220.580	3.0
149.8640	28.01	-3.50	55417.830	3.5	122144.990	2.5	150.0903	28.01	-2.64	68156.570	1.5	134783.140	2.5
149.8672	25.01	-4.63	14325.860	4.0	81051.620	3.0	150.0944	23.02	-1.43	88944.380	2.5	155569.100	2.5
149.8678	26.02	-2.95	73727.640	2.0	140453.100	3.0	150.0972	28.01	-2.04	54557.050	4.5	121180.550	5.5
149.8679	56.01	-5.86	0.000	0.0	66725.430	0.0	150.1006	24.03	-3.73	233718.000	4.5	300340.000	5.5
149.8692	22.02	-0.33	8472.600	2.0	75197.430	2.0	150.1008	26.01	-4.46	25805.320	4.5	92427.220	4.5
149.8716	25.02	-5.34	43674.700	1.5	110398.500	2.5	150.1022	26.01	-5.98	25981.650	3.5	92602.940	3.5
149.8736	28.01	-1.38	55417.830	3.5	122140.710	4.5	150.1024	18.01	-4.01	142717.020	3.5	209338.210	3.5
149.8778	30.02	-0.20	80850.200	1.0	147571.200	1.0	150.1032	18.01	-3.33	142717.020	3.5	209337.870	4.5
149.8781	27.02	-4.42	105008.700	3.5	171729.600	2.5	150.1080	25.02	-4.35	68892.000	3.5	135510.700	2.5
149.8784	23.02	-4.34	87544.460	4.5	154265.200	3.5	150.1085	27.02	-2.17	105965.100	2.5	172583.600	3.5
149.8788	9.02	-3.71	390834.600	2.5	457555.170	1.5	150.1085	27.02	-2.17	105965.100	2.5	172583.600	3.5
149.8821	26.02	-0.11	115110.920	4.0	181830.020	3.0	150.1085	27.02	-3.82	105965.100	2.5	172583.600	3.5
149.8847	16.00	-3.40	9237.760	2.0	75955.700	3.0	150.1095	8.01	-2.28	211521.980	1.5	278140.000	1.5
149.8854	25.01	-3.23	39808.140	3.0	106525.800	3.0	150.1095	8.01	-3.21	211521.980	1.5	278140.000	2.5
149.8857	26.02	-2.52	69747.400	0.0	136464.900	1.0	150.1119	18.01	-4.52	142186.270	4.5	208803.240	4.5
149.8873	10.01	-4.93	224087.020	1.5	290803.820	5	150.1119	18.01	-2.79	142186.270	4.5	208803.240	5.5
149.8904	25.03	-2.13	131170.100	4.0	197885.500	3.0	150.1144	26.01	-8.44	384.770	3.5	67000.630	2.5
149.8917	28.01	-3.66	53601.190	1.5	120316.020	5	150.1150	14.02	-0.50	142943.740	3.0	209559.330	3.0
149.8919	26.02	-3.08	115110.920	4.0	181825.670	4.0	150.1155	26.02	-4.57	63425.170	6.0	130040.560	7.0
149.8936	26.01	-4.00	25981.650	3.5	92695.620	2.5	150.1177	29.02	-1.68	62065.000	3.5	128679.400	2.5
149.8940	16.00	-4.15	9237.760	2.0	75951.570	2.0	150.1197	14.02	-0.40	142943.740	3.0	209559.330	3.0
149.8951	26.02	-3.98	50184.900	2.0	116898.220	2.0	150.1249	27.02	-3.09	71623.100	6.5	138234.300	7.5
149.8951	16.00	-5.32	9237.760	2.0	75951.060	1.0	150.1290	25.02	-3.48	111776.600	1.5	178386.000	5
149.8957	24.01	-5.14	17998.010	2.5	86511.080	1.5	150.1300	26.02	-4.05	122346.610	3.0	188955.560	3.0
149.8969	23.02	-0.33	89417.500	3.5	156130.090	4.5	150.1314	28.02	-0.15	117251.000	3.0	183859.300	3.0
149.8971	25.01	-4.66	39813.380	2.0	106525.800	3.0	150.1337	29.01	-1.79	72724.000	2.0	139331.300	3.0
149.9002	10.01	-1.57	246192.450	2.5	312903.480	2.5	150.1361	26.01	-9.39	667.640	2.5	67273.860	1.5
149.9040	24.01	-7.31	17998.010	2.5	86507.380	2.5	150.1371	26.02	-2.65	119697.640	2.0	186303.440	3.0
149.9107	26.01	-4.72	20830.520	2.5	87536.900	3.5	150.1431	26.02	-0.18	135316.420	5.0	201919.530	4.0
149.9122	27.02	-4.54	106489.200	3.5	173194.900	2.5	150.1434	27.02	-3.39	106591.900	1.5	173194.900	2.5
149.9122	27.02	-4.54	106489.200	3.5	173194.900	2.5	150.1470	26.02	-1.45	118350.240	4.0	184951.620	3.0
149.9122	27.02	-1.27	106489.200	3.5	173194.900	2.5	150.1526	25.01	-7.86	27583.300	4.0	94182.200	3.0
149.9136	26.02	-1.41	118246.520	3.0	184951.620	3.0	150.1637	25.01	-7.04	27588.230	3.0	94182.200	3.0
149.9183	22.02	-0.94	10721.200	2.0	77424.200	3.0	150.1656	25.01	-9.23	27589.030	2.0	94182.200	3.0
149.9244	22.02	-2.30	10721.200	2.0	77421.480	2.0	150.1746	26.01	-6.99	0.000	4.5	66589.170	4.5
149.9255	27.02	-1.64	103655.700	1.5	170355.500	2.5	150.1780	14.02	-1.88	142943.740	3.0	209531.400	2.0
149.9296	26.02	-3.28	70725.010	3.0	137423.000	3.0	150.1781	28.01	-3.45	9330.040	3.5	75917.630	3.5
149.9298	25.03	-2.16	119961.500	3.0	186659.400	4.0	150.1822	15.00	-1.13	11360.800	1.5	77946.600	2.5
149.9300	26.02	-2.80	115110.920	4.0	181808.700	5.0	150.1827	14.02	-0.50	142945.840	2.0	209531.400	2.0
149.9349	26.02	-4.56	69836.830	3.0	136532.450	2.0	150.1833	25.03	-2.77	130969.500	3.0	197554.800	2.0
149.9380	26.02	-4.00	70728.750	4.0	137423.000	3.0	150.1840	11.02	-0.15	444825.000	2.5	511410.000	2.5
149.9408	30.02	-0.23	79273.600	2.0	145966.600	3.0	150.1855	25.01	-3.50	35004.430	3.0	101588.300	3.0
149.9516	26.01	-3.43	25428.800	5.5	92116.980	4.5	150.1876	25.02	-2.90	112645.310	5	179228.690	1.5
149.9518	15.00	-1.74	11360.800	1.5	78048.900	5	150.1881	14.02	-0.24	142948.250	1.0	209531.400	2.0
149.9555	25.01	-5.23	0.000	3.0	66686.450	3.0	150.1886	28.01	-1.73	67031.020	5	133613.990	1.5
149.9568	25.01	-3.22	14593.820	3.0	81279.710	4.0	150.1896	10.01	-2.11	246597.710	5	313180.230	1.5
149.9568	18.01	-1.90	138243.550	1.5	204929.400	5	150.1916	15.00	-7.66	11360.800	1.5	77942.400	1.5
149.9574	27.02	-1.31	73540.200	3.5	140225.8								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
150.2694	25.01	-3.97	39826.570	1.0	106373.700	2.0	150.4565	26.01	-6.50	2837.940	2.5	69302.350	1.5
150.2752	26.02	-1.17	121468.820	5.0	188013.400	4.0	150.4583	26.01	-5.50	0.000	4.5	66463.590	5.5
150.2799	26.01	-4.38	25787.600	1.5	92330.100	2.5	150.4590	22.02	-1.32	10536.400	0.0	76999.700	1.0
150.2819	27.02	-1.99	106591.900	1.5	173133.500	1.5	150.4591	28.01	-3.06	70748.700	.5	137211.930	.5
150.2819	23.03	-1.46	151449.100	0.0	217990.700	1.0	150.4652	25.01	-3.50	14593.820	3.0	81054.350	2.0
150.2830	25.01	-2.70	14781.190	2.0	81322.330	1.0	150.4712	27.02	-3.35	105008.700	3.0	171466.600	2.5
150.2864	29.02	-2.20	126829.400	3.5	193369.000	4.5	150.4712	27.02	-3.35	105008.700	3.0	171466.600	2.5
150.2878	27.02	-2.02	103655.700	1.5	170194.700	.5	150.4712	27.02	-1.14	105008.700	3.5	171466.600	2.5
150.2951	26.02	.19	115289.910	5.0	181825.670	4.0	150.4714	25.01	-2.73	14593.820	3.0	81051.620	3.0
150.2978	26.01	-9.76	20805.830	4.5	87340.400	5.5	150.4717	9.02	-4.01	391257.420	2.5	457715.100	2.5
150.2981	18.01	-3.90	142717.020	3.5	209251.460	3.5	150.4723	15.00	-2.25	11376.400	2.5	77833.800	1.5
150.3012	26.01	-3.60	3117.480	1.5	69650.540	2.5	150.4762	25.01	-3.62	14781.190	2.0	81236.890	1.0
150.3020	27.02	-.83	73286.000	4.5	139818.700	3.5	150.4794	25.00	-5.10	0.000	2.5	66454.270	3.5
150.3035	26.02	-2.23	120179.950	0.0	186712.020	1.0	150.4812	30.02	-2.83	237047.800	2.0	303501.300	2.0
150.3047	18.01	-4.84	142717.020	3.5	209248.550	2.5	150.4821	26.01	-4.20	27620.390	2.5	94073.460	3.5
150.3063	25.02	-1.64	71831.980	2.5	138362.800	3.5	150.4843	25.02	-4.37	72183.330	3.5	138635.460	2.5
150.3092	28.01	-1.74	70748.700	.5	137278.220	1.5	150.4847	25.01	-3.58	39813.380	2.0	106265.300	1.0
150.3122	28.01	-1.95	51045.460	4.5	117573.680	4.5	150.4878	26.02	-1.52	135705.570	3.0	202156.130	2.0
150.3129	15.00	-3.25	11360.800	1.5	77888.700	1.5	150.4944	26.02	-2.01	67788.190	1.0	136235.840	1.0
150.3130	9.01	-3.80	232063.340	1.0	298591.200	2.0	150.4987	25.01	-4.68	9472.970	2.0	75918.730	2.0
150.3145	9.01	-4.33	232063.340	1.0	298590.500	1.0	150.4991	26.01	-4.66	25981.650	3.5	92427.220	4.5
150.3148	9.01	-4.90	232064.160	2.0	298591.200	2.0	150.4994	22.02	-1.83	10721.200	2.0	77166.650	2.0
150.3210	28.01	-2.63	53365.170	4.5	119889.470	5.5	150.5113	28.02	-3.12	63472.600	2.0	129912.800	2.0
150.3221	23.02	-3.85	89457.670	2.5	155981.500	3.5	150.5131	25.01	-6.98	14781.190	2.0	81220.580	3.0
150.3287	24.01	-3.07	25035.640	.5	91556.540	1.5	150.5146	25.01	-3.27	39826.570	1.0	106265.300	1.0
150.3332	27.02	-3.61	105008.700	3.5	171527.600	3.5	150.5153	26.02	.11	82846.590	4.0	149285.000	3.0
150.3335	26.02	-2.55	115289.910	5.0	181808.700	5.0	150.5179	28.03	-.44	122377.910	1.5	188815.210	1.5
150.3362	29.01	-.77	72724.000	2.0	139241.600	1.0	150.5219	30.02	-2.37	147921.500	2.0	214357.000	1.0
150.3386	27.02	-2.75	73214.500	.5	139731.000	.5	150.5219	23.02	-2.05	89417.500	3.5	155853.000	2.5
150.3400	9.01	-3.24	211900.260	1.0	278416.170	0.0	150.5231	24.02	-3.35	43286.400	4.0	109721.400	3.0
150.3404	26.02	-3.34	70694.030	5.0	137209.730	4.0	150.5281	27.02	-1.96	72341.900	1.5	138774.700	2.5
150.3440	26.02	-3.68	116316.630	5.0	182830.760	6.0	150.5371	26.01	-3.74	25787.600	1.5	92216.420	1.5
150.3455	9.01	-3.62	232066.320	3.0	298579.800	4.0	150.5404	8.01	-3.31	211712.660	2.5	278140.000	1.5
150.3456	24.01	-2.88	25043.100	1.5	91556.540	1.5	150.5404	8.01	-2.08	211712.660	2.5	278140.000	2.5
150.3481	15.00	-2.40	11376.400	2.5	77888.700	1.5	150.5494	23.03	-2.87	151567.300	2.0	217990.700	1.0
150.3486	28.03	-.36	121799.830	2.5	188311.940	2.5	150.5545	25.01	-4.95	14901.180	1.0	81322.330	1.0
150.3487	9.01	-4.85	232063.340	1.0	298575.400	2.0	150.5561	26.02	-4.43	82494.880	1.0	148915.300	1.0
150.3487	9.01	-4.32	232064.160	2.0	298576.200	3.0	150.5593	28.01	-4.15	56371.410	3.5	122790.410	4.5
150.3505	9.01	-3.93	232064.160	2.0	298575.400	2.0	150.5632	24.02	-6.52	43304.100	2.0	109721.400	3.0
150.3513	28.01	-4.55	68131.210	3.5	134642.090	3.5	150.5642	28.01	-1.22	53496.490	5.5	119913.330	4.5
150.3535	9.01	-2.95	211887.190	2.0	278397.120	1.0	150.5731	26.01	-2.35	20516.980	2.5	86929.920	3.5
150.3536	9.01	-3.85	232066.320	3.0	298576.200	3.0	150.5736	27.02	-3.71	73214.500	.5	139627.200	1.5
150.3543	28.01	-3.28	53634.620	1.5	120144.170	2.5	150.5754	27.02	-.78	105955.100	2.5	172377.000	3.5
150.3545	24.01	-2.85	25047.040	2.5	91556.540	1.5	150.5769	26.01	-7.62	862.630	1.5	67273.860	1.5
150.3554	9.01	-.30	232066.320	3.0	298575.400	2.0	150.5787	28.01	-4.49	70778.120	3.5	137188.580	4.5
150.3562	25.01	-2.25	43696.190	3.0	110204.900	3.0	150.5802	15.00	-2.77	11360.800	1.5	77770.600	.5
150.3563	26.02	-.64	118442.920	3.0	184951.620	3.0	150.5839	28.01	-3.71	68131.210	3.5	134539.370	2.5
150.3564	25.02	-2.57	71831.980	2.5	138340.620	2.5	150.5840	18.01	-1.80	145668.800	1.5	212076.900	2.5
150.3579	25.04	.15	177862.000	3.5	244370.000	3.5	150.5856	29.01	-.96	71531.500	3.0	137938.900	4.0
150.3587	9.02	-3.23	391047.540	.5	457555.170	1.5	150.5913	30.02	-.16	78096.300	3.0	144501.200	3.0
150.3660	26.02	-2.75	69695.730	4.0	136200.130	3.0	150.5960	25.02	-3.37	71831.980	2.5	138234.790	1.5
150.3661	26.02	-3.20	82410.940	2.0	148915.300	1.5	150.5972	27.02	-2.76	103593.700	2.5	169996.000	1.5
150.3664	25.00	-2.91	0.000	2.5	66504.210	1.5	150.6004	25.03	-2.29	120603.100	4.0	187004.000	3.0
150.3664	27.02	-4.20	72270.500	3.5	138774.700	2.5	150.6028	9.02	-4.70	390976.350	1.5	457376.180	.5
150.3669	10.03	-.58	575968.000	1.5	642472.000	2.5	150.6031	24.02	-6.32	43321.700	3.0	109721.400	3.0
150.3671	27.02	-1.26	103690.800	.5	170194.700	.5	150.6050	9.02	-3.86	391047.540	.5	457446.390	.5
150.3672	25.02	-3.83	43668.840	2.5	110172.690	1.5	150.6068	26.02	-4.29	69837.760	2.0	136235.840	1.0
150.3688	9.01	-.03	232064.160	2.0	298567.300	3.0	150.6113	22.02	-1.57	10603.600	1.0	76999.700	1.0
150.3717	9.01	-2.60	211866.130	3.0	278368.010	2.0	150.6114	28.01	-3.86	68131.210	3.5	134527.240	3.5
150.3737	9.01	-3.89	232066.320	3.0	298567.300	3.0	150.6118	26.01	-4.16	26932.740	.5	93328.600	1.5
150.3744	28.01	-3.84	67880.160	2.5	134380.820	3.5	150.6133	25.00	-5.80	0.000	2.5	66395.190	2.5
150.3777	27.02	-2.17	73726.600	2.5	140225.800	3.5	150.6183	28.01	-.66	53496.490	5.5	119889.470	5.5
150.3802	30.02	-.50	211725.500	2.0	278223.600	1.0	150.6197	24.01	-2.51	25033.950	3.5	91426.310	2.5
150.3805	25.02	-6.55	43674.700	1.5	110172.690	1.5	150.6283	26.02	-2.67	117068.560	3.0	183457.150	4.0
150.3830	9.01	-3.21	211900.260	1.0	278397.120	1.0	150.6293	26.02	-3.25	117068.560	3.0	183456.690	3.0
150.3846	10.01	-4.43	224087.020	1.5	290583.170	1.5	150.6379	23.02	-1.96	78880.850	2.5	154265.200	3.5
150.3864	56.01	-1.62	5674.824	0.0	72170.199	0.0	150.6405	24.01	-2.54	25043.100	1.5	91426.310	2.5
150.3865	26.02	-4.08	84159.550	4.0	150654.900	3.0	150.6408	17.03	-1.55	181643.000	2.0	248026.100	2.0
150.3867	23.01	-3.54	12545.150	4.0	79040.400	3.0	150.6445	15.01	-.74	65308.050	3.0	131689.500	4.0
150.3894	26.02	-4.13	116316.630	5.0	182810.660	5.0	150.6494	24.01	-2.20	25047.040	2.5	91426.310	2.5
150.3911	29.01	-1.31	72724.000	2.0	139217.300	2.0	150.6519	28.02	-4.13	116674.500	4.0	183052.700	4.0
150.3959	23.02	-.84	89005.640	.5	155496.800	1.5	150.6538	26.01	-5.95	0.000	4.5	66377.370	3.5
150.3998	26.02	-.88	69695.730	4.0	136185.170	5.0	150.6577	23.02	-.75	89193.470	1.5	155569.100	2.5
150.4021	26.02	-1.70	69747.400	0.0	136235.840	1.0	150.6621	15.00	-2.68	11360.800	1.5	77734.500	2.5
150.4021	10.01	-1.93	246415.040	1.5	312903.480	2.5	150.6626	28.01	-3.40	13550.390	3.5	79923.880	4.5
150.4078	26.02	-.48	50412.300	2.0	116898.220	2.0	150.6634	28.01	-3.53	67694.640	2.5	134067.760	1.5
150.4099	28.02	-3.11	63472.600	2.0	129957.600	1.0	150.6652	25.01	-1.56	43696.190	3.0	110068.500	2.5
150.4099	27.02	-1.13	73726.600	2.5	140211.600	2.5	150.6689	29.02					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
150.7379	27.02	-1.09	103655.700	1.5	169996.000	1.5	150.9631	26.02	-1.64	113635.340	4.0	179876.710	4.0
150.7384	26.02	-2.89	123455.920	0.0	189796.030	1.0	150.9657	27.02	-4.43	106954.700	2.5	173194.900	2.5
150.7392	26.02	-4.40	118721.600	2.0	189061.350	1.0	150.9685	23.02	-5.49	43942.490	1.5	110181.470	2.5
150.7404	27.02	-7.09	37316.500	2.5	103655.700	1.5	150.9741	13.02	-1.96	143633.380	5.5	209869.890	5.5
150.7425	27.02	-1.76	73861.800	1.5	140200.100	1.5	150.9770	28.01	-4.35	67694.640	2.5	133929.880	3.5
150.7431	26.02	-1.80	135554.410	4.0	201892.440	5.0	150.9787	26.02	-4.82	50184.900	2.0	116419.390	2.0
150.7465	28.01	-0.99	53496.490	5.5	119833.000	5.5	150.9808	25.02	-1.60	110711.620	3.5	176945.200	4.5
150.7484	25.01	-1.88	14901.180	1.0	81236.890	1.0	150.9834	29.01	-3.12	70841.300	3.0	137073.750	2.0
150.7512	26.02	-2.7	115474.250	6.0	181808.700	5.0	150.9844	24.03	-2.00	234108.000	5.5	300340.000	5.5
150.7512	25.00	-6.05	0.000	2.5	66334.470	3.5	150.9854	26.02	-3.59	123552.950	1.0	189784.520	2.0
150.7545	26.01	-8.09	667.640	2.5	67000.630	2.5	150.9876	18.01	-3.51	143107.600	2.5	209338.210	3.5
150.7564	9.02	-3.18	391626.910	3.5	457959.070	3.5	150.9889	26.02	-1.06	118721.600	2.0	184951.620	3.0
150.7619	26.02	-1.27	69788.190	1.0	136117.940	2.0	150.9946	26.02	-0.09	113677.010	5.0	179904.560	6.0
150.7652	27.02	-3.63	56794.800	1.5	123123.100	1.5	150.9949	27.01	-2.74	1597.200	2.0	67824.600	2.0
150.7656	28.01	-1.97	67880.160	2.5	134208.300	2.5	150.9950	26.01	-2.70	26055.400	2.5	92282.760	3.5
150.7679	26.01	-8.92	21308.080	1.5	87635.200	5.5	150.9967	29.02	-1.40	77967.600	2.5	144194.200	2.5
150.7721	28.01	-2.13	70635.460	2.5	136960.750	2.5	151.0005	23.02	-0.83	89457.670	2.5	155682.600	3.5
150.7731	26.02	-1.68	135705.570	3.0	202030.380	3.0	151.0052	26.02	-3.97	121919.740	3.0	188142.640	2.0
150.7741	28.01	-4.29	70635.460	2.5	136959.860	2.5	151.0058	13.03	-0.94	616646.700	2.0	682669.300	1.0
150.7750	10.03	-0.73	576915.000	1.5	643239.000	5.5	151.0064	23.02	-2.78	86716.840	1.5	152939.200	2.5
150.7751	15.01	-2.08	65308.050	3.0	131632.000	3.0	151.0068	28.01	-1.34	55018.710	2.5	121240.900	3.5
150.7811	28.02	-1.91	78303.100	2.0	144624.400	1.0	151.0095	10.03	-3.05	643239.000	5.5	709460.000	1.5
150.7824	26.02	-3.78	64646.640	3.0	132785.360	4.0	151.0162	25.01	-2.28	43850.420	2.0	110068.500	2.0
150.7900	30.02	-1.71	234384.000	3.0	300701.400	2.0	151.0164	25.02	-1.12	110172.690	1.5	176390.670	2.5
150.7932	25.04	-4.92	184633.000	3.5	250949.000	3.5	151.0196	26.02	-1.70	113677.010	5.0	179893.560	5.0
150.7989	27.02	-3.56	106489.200	3.5	172802.700	2.5	151.0209	10.03	-3.79	575968.000	1.5	642184.000	1.5
150.8000	26.02	-4.33	69695.730	4.0	136008.740	3.0	151.0231	26.01	-4.11	8391.920	2.5	74606.970	2.5
150.8016	27.02	-3.64	107297.000	1.5	173609.300	1.5	151.0256	26.02	-1.54	135705.570	3.0	201919.530	4.0
150.8016	27.02	-3.64	107297.000	1.5	173609.300	1.5	151.0305	24.02	-4.79	43321.700	3.0	109533.500	4.0
150.8016	27.02	-4.74	107297.000	1.5	173609.300	1.5	151.0328	27.02	-1.36	106591.900	1.5	172802.700	2.5
150.8030	26.01	-4.01	25805.320	4.5	92116.980	4.5	151.0350	28.02	-1.67	115272.500	5.0	181482.300	4.0
150.8043	26.02	-4.92	136117.940	2.0	202429.040	1.0	151.0364	27.02	-2.10	103386.700	4.5	169595.900	3.5
150.8060	26.02	-4.86	135582.080	6.0	201892.440	5.0	151.0367	28.01	-1.49	55018.710	2.5	121227.800	2.5
150.8073	26.01	-7.17	3117.480	1.5	69427.270	5.5	151.0383	28.01	-1.84	67694.640	2.5	133903.000	1.5
150.8177	27.02	-1.53	103690.800	5.5	169996.000	1.5	151.0424	28.01	-4.90	70748.700	5.5	136955.280	5.5
150.8189	28.02	-3.69	71841.900	1.0	138146.600	0.0	151.0428	13.01	-4.84	142717.020	3.5	208923.410	2.5
150.8200	29.01	-1.64	72724.000	2.0	139028.200	2.0	151.0474	26.01	-5.54	384.770	3.5	66589.170	4.5
150.8218	26.01	-1.26	26055.400	2.5	92358.800	1.5	151.0501	27.02	-0.63	73540.200	3.5	139743.400	2.5
150.8220	23.02	-1.39	89193.470	1.5	155496.800	1.5	151.0502	29.01	-0.65	70841.300	3.0	137044.450	4.0
150.8248	30.02	-2.73	234384.000	3.0	300686.100	3.0	151.0581	25.02	-3.73	113677.010	5.0	179876.710	4.0
150.8265	28.01	-4.24	70635.460	2.5	136936.820	3.5	151.0589	26.02	-3.87	50276.100	4.0	116475.440	3.0
150.8270	26.01	-1.54	25981.650	3.5	92282.760	3.5	151.0599	17.03	-2.81	248026.100	2.0	314225.000	2.0
150.8289	28.01	-7.22	29593.460	5.5	95893.760	1.5	151.0637	23.01	-2.74	106.630	2.0	66303.880	3.0
150.8314	28.01	-1.08	55018.710	2.5	121317.890	3.5	151.0652	28.02	-3.42	76237.800	3.0	142434.400	2.0
150.8333	26.02	-2.50	115474.250	6.0	181772.590	6.0	151.0668	6.00	-2.80	21648.010	0.0	87843.910	1.0
150.8347	9.02	-3.88	391257.420	2.5	457555.170	1.5	151.0670	28.01	-3.93	53601.190	1.5	119796.980	2.5
150.8368	25.02	-4.64	71831.980	2.5	138128.800	1.5	151.0684	26.02	-4.71	50184.900	2.0	116380.070	1.0
150.8368	26.01	-6.96	977.030	5.5	67273.860	1.5	151.0693	28.01	-1.35	56075.260	2.5	122270.050	3.5
150.8396	15.00	-7.86	11360.800	1.5	77656.400	5.5	151.0699	26.02	-4.56	64646.640	3.0	132659.170	4.0
150.8412	26.02	-3.31	69695.730	4.0	135990.620	4.0	151.0718	29.01	-2.40	70841.300	3.0	137034.970	3.0
150.8436	26.01	-8.21	21308.080	1.5	87601.900	1.5	151.0723	26.02	-0.96	118867.870	1.0	185061.350	1.0
150.8453	9.01	-4.28	211866.130	3.0	278159.210	3.0	151.0729	26.02	-0.77	136235.840	1.0	202429.040	1.0
150.8499	28.01	-1.32	53365.170	4.5	119656.250	3.5	151.0737	23.01	-3.43	2604.820	1.0	68797.700	2.0
150.8577	26.01	-5.72	384.770	3.5	66672.390	3.5	151.0744	28.01	-3.71	70706.770	1.5	136899.340	2.5
150.8602	26.02	-2.47	119982.260	1.0	186268.790	2.0	151.0744	28.01	-2.74	70706.770	1.5	136899.330	1.5
150.8606	28.01	-3.92	10115.660	2.5	76402.030	2.5	151.0772	26.02	-3.42	50276.100	4.0	116467.410	4.0
150.8637	26.02	-3.47	84369.920	2.0	150654.900	3.0	151.0795	26.01	-2.64	25981.650	3.5	92171.950	4.5
150.8658	26.01	-3.63	25805.320	4.5	92089.410	3.5	151.0806	26.02	-4.54	121919.740	3.0	188109.580	3.0
150.8689	27.02	-1.69	103245.000	5.5	169527.700	4.5	151.0855	28.01	-1.22	1506.940	1.5	67694.640	2.5
150.8711	26.02	-1.46	118721.600	2.0	185003.350	2.0	151.0912	27.02	-7.41	37316.500	2.5	103501.700	3.5
150.8725	26.02	-3.10	69836.830	3.0	136117.940	2.0	151.0919	26.01	-7.03	3117.480	1.5	69302.350	1.5
150.8732	14.01	-1.16	55309.610	1.5	121590.450	1.5	151.0934	26.02	-0.21	135735.310	5.0	201919.530	4.0
150.8747	26.02	-2.21	69837.760	2.0	136117.940	2.0	151.0970	28.01	-2.68	70778.120	3.5	136960.750	2.5
150.8763	25.01	-8.03	27589.030	2.0	93868.500	1.0	151.0978	26.02	-1.85	122829.550	3.0	189011.840	4.0
150.8785	27.02	-2.34	73540.200	3.5	139818.700	3.5	151.0981	6.00	-2.20	21648.010	0.0	87830.170	1.0
150.8785	22.02	-3.02	10721.200	2.0	76999.700	1.0	151.1025	26.02	-3.85	50295.200	3.0	116475.440	3.0
150.8792	12.03	-0.68	545962.100	5.5	612240.300	1.5	151.1043	25.02	-2.33	72183.330	3.5	138362.800	3.5
150.8814	27.02	-8.37	37316.500	2.5	103593.700	2.5	151.1058	27.02	-2.59	106954.700	2.5	173133.500	1.5
150.8817	28.01	-0.04	53496.490	5.5	119773.600	6.5	151.1076	25.04	-0.07	176937.000	1.5	243115.000	1.5
150.8818	25.01	-1.41	14959.840	0.0	81236.890	1.0	151.1108	27.02	-0.82	103593.700	2.5	169770.300	2.5
150.8871	26.01	-1.74	26055.400	2.5	92330.100	2.5	151.1110	26.02	-0.48	113584.200	2.0	179760.720	3.0
150.8906	25.01	-2.89	14781.190	2.0	81054.350	2.0	151.1138	26.02	-0.27	113584.200	2.0	179759.490	2.0
150.8918	28.01	-3.38	13550.390	3.5	79823.030	3.5	151.1154	23.02	-3.00	86938.010	2.5	153112.600	3.5
150.8932	9.01	-4.76	211887.190	2.0	278159.210	3.0	151.1187	28.01	-2.52	52205.950	3.5	118379.110	2.5
150.8933	24.03	-1.91	234094.000	4.5	300366.000	3.5	151.1190	25.02	-1.16	110036.140	5.5	176209.150	1.5
150.8948	26.02	-4.47	113605.370	3.0	179876.710	4.0	151.1195	26.01	-5.01	27314.930	3.5	93487.710	3.5
150.8969	25.01	-3.18	14781.190	2.0	81051.620	3.0	151.1201	26.02	-2.98	134265.420	2.0	200437.940	2.0
150.9001													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
151.1815	28.01	-4.00	70706.770	1.5	136852.440	1.5
151.1843	26.02	-3.30	130756.840	6.0	196901.270	5.0
151.1856	25.01	-1.91	43850.420	2.0	109994.300	1.0
151.1907	6.00	-2.88	21648.010	0.0	87789.630	1.0
151.1908	10.01	-2.43	252798.480	5.5	318940.080	1.5
151.1910	28.02	-1.94	78482.900	1.0	144624.400	1.0
151.1922	27.02	-3.32	103386.700	4.5	169527.700	4.5
151.1923	18.01	-4.07	143107.600	2.5	209248.550	2.5
151.1990	26.01	-6.18	862.630	1.5	67000.630	2.5
151.2000	26.01	-6.29	384.770	3.5	66522.320	2.5
151.2030	23.01	-2.60	2808.760	3.0	68945.000	3.0
151.2048	26.02	-1.74	118867.870	1.0	185003.350	2.0
151.2051	26.01	-1.29	25981.650	3.5	92116.980	4.5
151.2064	14.01	-4.43	55309.610	1.5	121444.380	5.5
151.2149	28.01	-1.42	70635.460	2.5	136766.490	2.5
151.2165	26.02	-3.33	115642.230	7.0	181772.590	6.0
151.2171	24.02	-4.71	43304.100	2.0	109434.200	2.0
151.2171	29.01	-3.36	69704.800	4.0	135834.900	4.0
151.2187	25.02	-1.46	72183.330	3.5	138312.700	4.5
151.2192	26.02	-0.04	130756.840	6.0	196886.010	6.0
151.2214	26.01	-3.51	1872.600	4.5	68000.820	4.5
151.2237	28.01	-2.43	68156.570	1.5	134283.760	5.5
151.2264	26.02	-3.32	122829.550	3.0	188955.560	3.0
151.2279	26.02	-3.33	113635.340	4.0	197760.720	3.0
151.2296	26.02	-6.68	130756.840	6.0	196881.470	7.0
151.2306	26.02	-4.04	50295.200	3.0	116419.390	2.0
151.2308	26.01	-5.18	20805.830	4.5	86929.920	3.5
151.2315	25.03	-2.33	111506.000	1.0	177629.800	2.0
151.2330	9.02	-4.97	389525.550	1.5	455648.670	1.5
151.2341	26.02	-3.36	113635.340	4.0	179757.980	4.0
151.2364	26.02	-1.10	116364.760	0.0	182486.400	1.0
151.2381	17.01	-4.28	27877.800	0.0	93998.700	1.0
151.2400	4.01	-5.9	31933.000	0.0	98053.074	0.0
151.2428	26.02	-2.66	134265.420	2.0	200384.280	3.0
151.2457	29.01	-4.93	71531.500	3.0	137649.100	2.0
151.2513	28.01	-4.62	67694.640	2.5	133809.760	3.5
151.2525	27.02	-1.29	103655.700	1.5	169770.300	2.5
151.2566	26.02	-4.71	113635.340	4.0	179748.170	5.0
151.2573	24.02	-3.45	43321.700	3.0	109434.200	2.0
151.2598	23.02	-1.53	89457.670	2.5	155569.100	2.5
151.2615	23.01	-2.60	2687.010	2.0	68797.700	2.0
151.2628	30.02	-1.56	234576.000	4.0	300686.100	3.0
151.2682	26.01	-3.47	25981.650	3.5	92089.410	3.5
151.2714	26.02	-4.09	116380.070	1.0	182486.400	1.0
151.2717	26.01	-4.90	8391.920	2.5	74498.150	1.5
151.2727	28.03	-4.01	122709.410	5.5	188815.210	1.5
151.2755	10.01	-4.85	224699.270	5.5	290803.820	5.5
151.2762	26.02	-2.04	93388.750	4.0	159493.000	3.0
151.2774	28.01	-3.35	70748.700	5.5	135852.440	1.5
151.2812	26.02	-3.17	116316.630	5.0	182418.700	4.0
151.2820	27.02	-3.70	107507.600	5.5	173609.300	1.5
151.2820	27.02	-3.70	107507.600	5.5	173609.300	1.5
151.2820	27.02	-3.70	107507.600	5.5	173609.300	1.5
151.2844	26.02	-4.93	116380.070	1.0	182486.400	2.0
151.2847	26.02	-2.82	93392.450	3.0	159493.000	3.0
151.2856	28.01	-1.83	56075.260	2.5	122175.420	2.5
151.2866	27.02	-2.95	73214.500	5.5	139314.200	5.5
151.2873	26.01	-1.86	20830.520	2.5	86929.920	3.5
151.2886	26.02	-2.47	123697.180	2.0	189796.030	1.0
151.2888	26.02	-4.11	113584.200	2.0	179682.940	1.0
151.2915	25.02	-2.49	110172.490	1.5	176270.250	2.5
151.2922	28.01	-2.99	70635.460	2.5	136732.740	1.5
151.2931	28.01	-2.06	55018.710	2.5	121115.590	1.5
151.2950	26.02	-1.60	116316.630	5.0	182412.650	4.0
151.2955	29.02	-1.68	78779.400	1.5	144875.200	1.5
151.2974	23.01	-2.53	208.890	3.0	66303.880	3.0
151.2981	26.02	-7.70	120697.100	1.0	186791.780	2.0
151.2987	27.02	-4.10	106489.200	3.5	172583.600	3.5
151.2987	27.02	-4.10	106489.200	3.5	172583.600	3.5
151.2987	27.02	-4.10	106489.200	3.5	172583.600	3.5
151.2992	27.02	-4.50	103501.700	3.5	169595.900	3.5
151.2995	24.00	-9.46	0.000	3.0	60094.060	4.0
151.3016	28.01	-1.63	67880.160	2.5	133973.330	2.5
151.3027	26.02	-1.18	113584.200	2.0	179676.890	2.0
151.3040	27.02	-2.23	73726.600	2.5	139818.700	3.5
151.3130	9.02	-3.60	391626.910	3.5	457715.100	2.5
151.3142	28.01	-3.48	68154.310	1.5	134241.960	5.5
151.3149	26.02	-2.30	123697.180	2.0	189784.520	2.0
151.3150	6.00	-2.84	21648.010	0.0	87735.300	1.0
151.3173	27.02	-3.91	57036.800	5.5	123123.100	1.5
151.3175	18.01	-3.48	142717.020	3.5	208803.240	4.5
151.3295	26.02	-3.38	113677.010	5.0	179757.980	4.0
151.3302	26.01	-3.74	27314.930	3.5	93395.600	2.5
151.3308	26.02	-1.13	122944.150	4.0	189024.530	5.0
151.3314	15.01	-4.51	65273.180	2.0	131353.300	2.0
151.3315	26.01	-2.22	26170.190	5.5	92250.270	6.5
151.3316	26.02	-3.42	93412.930	2.0	159493.000	3.0
151.3362	29.01	-4.96	70841.300	3.0	136919.350	3.0
151.3379	26.02	-3.17	113584.200	2.0	179661.480	3.0
151.3388	24.01	-9.78	12032.720	1.5	78109.640	1.5
151.3445	26.01	-4.15	26352.800	4.5	92427.220	4.5
151.3491	23.01	-3.27	2687.010	2.0	68759.400	1.0
151.3498	26.02	-2.35	121941.290	4.0	188013.400	4.0
151.3500	26.02	-1.94	70725.010	3.0	136797.050	3.0
151.3511	26.02	-0.07	113605.370	3.0	179676.890	2.0
151.3513	23.02	-6.07	44110.040	2.5	110181.470	2.5
151.3520	26.02	-4.46	113677.010	5.0	179748.170	5.0
151.3532	27.02	-6.65	105008.700	3.5	171079.300	3.5
151.3532	27.02	-6.65	105008.700	3.5	171079.300	3.5
151.3532	27.02	-7.73	105008.700	3.5	171079.300	3.5
151.3534	6.00	-3.89	21648.010	0.0	87718.560	1.0
151.3552	28.01	-1.35	56075.260	2.5	122144.990	2.5
151.3560	24.01	-4.66	25033.950	3.5	91103.360	4.5
151.3563	14.01	-1.66	83802.210	5.5	149871.500	1.5
151.3574	26.02	-2.12	70725.010	3.0	136793.820	2.0
151.3585	26.02	-1.46	70728.750	4.0	136797.050	3.0
151.3599	26.02	-2.51	122944.150	4.0	189011.840	4.0
151.3615	26.02	-0.98	116419.390	2.0	182486.400	1.0
151.3631	25.02	-1.97	110398.500	2.5	176464.780	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
151.3671	25.02	-0.63	110036.140	5	176100.710	5
151.3672	17.02	-3.55	151848.600	2.5	217913.100	1.5
151.3689	26.02	-3.30	121949.620	5.0	188013.400	4.0
151.3701	26.02	-1.89	116316.630	5.0	182379.860	5.0
151.3734	25.03	-2.58	112013.300	3.0	178075.100	3.0
151.3745	26.02	-1.30	116419.390	2.0	182480.720	2.0
151.3782	28.01	-0.54	70706.770	1.5	136766.490	2.5
151.3848	26.02	-0.41	120826.170	2.0	186882.980	3.0
151.3851	26.02	-2.38	122898.840	2.0	188955.560	3.0
151.3860	25.03	-3.39	120603.100	4.0	186659.400	4.0
151.3865	26.02	-1.31	113605.370	3.0	179661.480	3.0
151.3908	27.02	-3.50	77622.900	4.5	143677.100	3.5
151.3965	28.01	-0.91	68156.570	1.5	134208.300	2.5
151.3987	14.02	-1.51	176487.190	1.0	242537.950	0.0
151.4044	26.02	-0.73	113677.010	5.0	179725.310	6.0
151.4113	15.01	-4.13	65308.050	3.0	131353.300	2.0
151.4220	28.01	-1.10	67694.640	2.5	133735.260	2.5
151.4222	26.02	-4.04	50276.100	4.0	116316.630	5.0
151.4226	28.01	-2.21	67694.640	2.5	133734.980	3.5
151.4229	29.01	-1.02	73101.870	1.0	139142.100	2.0
151.4239	26.02	-0.73	135990.620	4.0	202030.380	3.0
151.4243	26.02	-3.08	69695.730	4.0	135735.310	5.0
151.4254	23.02	-2.86	89457.670	2.5	155496.800	1.5
151.4262	26.02	-2.25	92523.910	5.0	158562.700	4.0
151.4268	9.01	-3.84	229550.110	2.0	295588.610	1.0
151.4275	26.02	-0.99	136117.940	2.0	202156.130	2.0
151.4306	26.02	-4.50	73727.640	2.0	139764.480	2.0
151.4307	9.01	-3.65	229551.790	1.0	295588.610	1.0
151.4310	9.01	-4.83	218866.130	3.0	277902.790	2.0
151.4315	25.02	-0.46	110172.490	1.5	176209.150	1.5
151.4350	26.02	-1.37	134360.400	4.0	200395.330	5.0
151.4368	26.02	-1.47	123750.390	3.0	189784.520	2.0
151.4368	9.01	-3.98	229554.450	0.0	295588.610	1.0
151.4371	26.01	-1.42	26055.400	2.5	92089.410	3.5
151.4390	17.02	-4.73	151879.900	1.5	217913.100	1.5
151.4448	28.01	-3.48	53634.620	1.5	119665.290	2.5
151.4450	26.01	-2.00	20516.980	2.5	86547.550	2.5
151.4481	26.02	-3.39	130852.250	8.0	196881.470	7.0
151.4491	29.01	-2.22	69704.800	4.0	135733.600	3.0
151.4528	26.01	-3.28	20516.980	2.5	86544.140	1.5
151.4544	9.01	-3.02	218866.130	3.0	277892.610	3.0
151.4552	26.02	-2.7	113635.340	4.0	179661.480	3.0
151.4555	27.02	-1.57	103501.700	3.5	169527.700	4.5
151.4556	28.01	-1.60	70706.770	1.5	136732.740	1.5
151.4569	26.02	-2.12	113605.370	3.0	179630.770	4.0
151.4571	26.02	-0.1	116419.390	2.0	182444.700	3.0
151.4589	29.02	-1.58	60804.900	4.5	126829.400	3.5
151.4604	26.02	-2.69	134360.400	4.0	200384.280	3.0
151.4655	26.02	-0.63	136008.740	3.0	202030.380	3.0
151.4678	25.00	-6.52	0.000	2.5	66020.630	2.5
151.4715	10.03	-2.17	576915.000	2.5	642934.000	3.5
151.4726	28.01	-4.59	70706.770	1.5	136725.330	1.5
151.4733	28.01	-1.98	55299.650	4.5	121317.890	3.5
151.4766	27.02	-1.56	73726.600	2.5	139743.400	2.5
151.4793	9.01	-2.92	211887.190	2.0	277902.790	2.0
151.4794	23.02	-1.75	98583.530	2.5	164399.100	3.5
151.4795	9.01	-1.73	211866.130	3.0	277881.650	4.0
151.4809	26.02	-4.49	120697.100	1.0	186712.020	1.0
151.4857	26.01	-0.31	0.000	4.5	66012.830	4.5
151.4865	26.02	-0.06	116380.070	1.0	182392.550	2.0
151.4890	26.02	-4.15	122944.150	4.0	188955.560	3.0
151.4892	28.01	-4.38	56075.260	2.5	122086.580	3.5
151.4926	26.02	-3.54	69695.730	4.0	135705.370	3.0
151.4933	28.01	-3.24	56075.260	2.5	122084.790	1.5
151.4955	26.02	-0.61	113739.620	6.0	179748.170	5.0
151.4989	26.02	-4.82	50412.300	2.0	116419.390	2.0
151.5027	9.01	-1.87	211887.190	2.0	277892.610	3.0
151.5030	26.02	-2.89	116475.440	3.0	182480.720	2.0
151.5037	28.01	-2.78	56075.260	2.5	122080.250	2.5
151.5042	26.01	-5.34	667.640	2.5	66672.390	3.5
151.5093	9.01	-2.04	211900.260	1.0	277902.790	2.0
151.5101	27.02	-1.22	103593.700	2.5	169595.900	3.5
151.5111	26.01	-2.09	26170.190	5.5	92171.950	4.5
151.5115	17.02	-3.61	151848.600	2.5	217913.100	1.5
151.5124	23.02	-3.31	86938.010	2.5	152939.200	2.5
151.5143	18.01	-1.56	145668.800	1.5	211669.180	2.5
151.5158	28.01	-1.22	68156.570	1.5	134156.280	1.5
151.5169	26.01	-5.03	18360.650	1.5	84359.900	1.5
151.5187	24.01	-3.47	20512.620	2.5	86511.080	1.5
151.5229	26.01	-4.28	26170.190	5.5	92166.810	5.5
151.5256	26.02	-2.54	113635.340	4.0	179630.770	4.0
151.5257	22.01	-0.31	4897.600	3.5	70893.000	3.5
151.5266	28.01	-0.64	55299.650	4.5	121294.670	4.5
151.5272	24.01	-4.75	20512.620	2.5	86507.380	2.5
151.5278	30.02	-2.35	23506.800	1.0	303501.300	2.0
151.5321	26.01	-5.43	384.770	3.5	66377.370	3.5
151.5330	28.01	-4.57	23108.280	2.5	89100.490	3.5
151.5331	25.02	-0.37	110398.500	2.5	176390.670	2.5
151.5385	26.02	-0.22	121008.780	3.0	186998.600	4.0
151.5386	19.02	-2.41	237912.200	1.5	303902.000	1.5
151.5392	26.02	-0.58	116419.390	2.0	182408.910	3.0
151.5403	24.01	-3.88	20518.330	3.5	86507.380	2.5
151.5405	23.01	-2.54	2808.760	3.0	68797.700	2.0
151.5419	28.01	-3.18	70778.120	3.5	136766.490	2.5
151.5461	10.01	-3.04	252933.540	1.5	318940.080	1.5
151.5480	26.02	-0.60	113739.620	6.0	179725.310	6.0
151.5491	26.01	-8.00	3117.480	1.5	69102.690	2.5
151.5518	28.01	-1.76	70748.700	0.5	136732.740	1.5
151.5532	25.02	-1.69	110711.620	3.5	176695.060	4.5
151.5541	26.02	-3.57	84671.870	3.0	150655.900	3.0
151.5567	26.02	-3.50	123697.180	2.0	189679.070	3.0
151.5602	28.02	-3.41	71383.700	2.0	137364.100	1.0
151.5603	26.02	-1.21	93512.640	4.0	159493.000	3.0
151.5663	22.01	-0.43	4628.610	2.5	70606.350	2.5
151.5673	26.02	-2.71	116467.410	4.0	182444.700	3.0
151.5685	23.01	-2.28	2968.220	4.0	68945.000	3.0
151.5688	28.01	-2.66	70748.700	0.5	136725.330	0.5
151.5768	26.02	-0.03	116419.390	2.0	182392.550	2.0
151.5791	25.02	-3.92	110711.620	3.5	176683.760	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
151.5794	28.01	-0.67	56075.260	2.5	122047.290	3.5	151.7880	8.02	-2.06	290956.620	1.0	356838.000	1.0
151.5825	28.01	-0.66	67880.160	2.5	133850.830	3.5	151.7891	28.01	-0.14	55299.650	4.5	121180.550	5.0
151.5834	30.02	-0.10	79273.600	2.0	145243.900	2.0	151.7898	9.02	-3.05	376814.020	2.5	442694.580	1.5
151.5834	17.02	-4.03	151879.900	1.5	217850.200	2.5	151.7924	29.01	-0.99	73101.870	1.0	138981.300	2.0
151.5841	26.04	-1.79	195212.000	2.0	261182.000	3.0	151.7942	26.02	-4.23	83646.980	1.0	149525.630	2.0
151.5858	26.02	-0.35	116475.440	3.0	182444.700	3.0	151.7976	18.01	-4.92	143371.350	1.5	209248.550	2.5
151.5875	26.01	-1.80	30388.550	4.5	96357.070	3.5	151.7984	28.01	-1.00	55417.830	3.5	121294.670	4.5
151.5916	17.02	-0.31	151946.400	0.5	217913.100	1.5	151.7996	25.00	-8.49	0.000	2.5	65876.340	3.5
151.5919	28.02	-1.50	78657.800	0.0	144624.400	1.0	151.8009	25.01	-3.77	43370.370	3.0	109246.150	4.0
151.5938	26.01	-0.95	20516.980	2.5	86482.750	3.5	151.8027	18.01	-1.36	144709.910	0.5	210584.880	1.5
151.5941	26.02	-0.40	120826.170	2.0	186791.780	2.0	151.8045	26.02	-0.21	121008.780	3.0	186882.980	3.0
151.5952	26.02	-1.43	134360.400	4.0	200325.560	4.0	151.8059	25.01	-3.88	43370.370	3.0	109243.950	3.0
151.5963	23.01	-2.90	339.210	4.0	66303.880	3.0	151.8063	25.00	-6.74	0.000	2.5	65873.400	2.5
151.5975	26.02	-2.36	136464.900	1.0	202429.040	1.0	151.8096	25.01	-4.30	43370.370	3.0	109242.360	2.0
151.6001	11.05	-0.76	807324.000	1.0	873287.000	2.0	151.8101	25.02	-3.75	110398.500	2.5	176270.250	2.5
151.6027	25.00	-0.60	0.000	2.5	65961.900	1.5	151.8138	18.01	-4.80	138243.550	1.5	204113.710	1.5
151.6033	24.01	-0.84	12148.000	2.5	78109.640	1.5	151.8147	9.02	-2.87	376879.070	3.5	442748.850	2.5
151.6063	28.01	-2.68	68281.620	0.5	134241.960	0.5	151.8160	27.02	-1.18	73861.800	1.5	139731.000	0.5
151.6162	26.02	-0.86	136200.130	3.0	202156.130	2.0	151.8171	26.02	-2.97	69836.830	3.0	135705.570	3.0
151.6179	26.01	-0.17	21581.640	4.5	87536.900	3.5	151.8192	26.02	-4.09	69837.760	2.0	135705.570	3.0
151.6211	28.01	-0.39	70635.460	2.5	136589.350	3.5	151.8204	25.02	-4.41	110398.500	2.5	176265.780	1.5
151.6214	26.02	0.34	113677.010	5.0	179630.770	4.0	151.8204	26.01	-4.70	27620.390	2.5	93487.710	3.5
151.6229	17.03	-2.60	182073.000	1.0	248026.100	2.0	151.8211	14.01	-2.35	84004.520	1.5	149871.500	1.5
151.6235	26.02	-0.40	73727.640	2.0	139680.470	3.0	151.8356	27.02	-3.42	105965.100	2.5	171825.800	1.5
151.6246	24.01	-3.50	25033.950	3.5	90986.310	3.5	151.8357	11.01	-1.88	297639.340	2.0	363500.000	1.0
151.6271	26.02	-0.87	116467.410	4.0	182418.700	4.0	151.8374	26.01	-8.42	21711.890	3.5	87571.800	2.5
151.6307	23.01	-2.88	208.890	3.0	66158.600	4.0	151.8403	26.02	-3.54	69695.730	4.0	135554.410	5.0
151.6372	25.00	-4.16	0.000	2.5	65946.870	2.5	151.8404	25.02	-1.62	111111.390	4.5	176970.010	4.5
151.6374	26.01	-3.86	26170.190	5.5	92116.980	4.5	151.8405	30.02	-1.68	237642.700	3.0	303501.300	2.0
151.6410	26.02	-0.74	116467.410	4.0	182412.650	4.0	151.8440	26.01	-3.42	13474.430	2.5	79331.490	3.5
151.6413	26.01	-7.61	667.640	2.5	66612.740	1.5	151.8480	25.01	-2.50	44138.960	1.0	109994.300	1.0
151.6427	26.02	-1.59	113635.340	4.0	179577.830	5.0	151.8495	26.01	-7.96	667.640	2.5	66522.320	2.5
151.6455	26.02	-0.59	116475.440	3.0	182418.700	4.0	151.8501	27.01	-9.71	19189.900	4.0	85044.300	3.0
151.6496	26.02	-2.96	116467.410	4.0	182408.910	3.0	151.8568	27.02	-2.70	73286.000	4.5	139137.500	5.5
151.6501	28.01	-1.45	55299.650	4.5	121240.900	3.5	151.8581	26.02	-0.10	131035.070	7.0	196886.010	6.0
151.6530	10.03	-3.83	575968.000	1.5	641908.000	0.5	151.8590	26.01	-2.86	30388.550	4.5	96239.100	4.5
151.6547	24.01	-0.67	25047.040	2.5	90986.310	3.5	151.8620	23.01	-2.80	36.050	1.0	65885.300	2.0
151.6591	26.01	-2.47	20830.520	2.5	86767.870	2.5	151.8649	27.02	-0.76	106954.700	2.5	172802.700	2.5
151.6594	26.02	-0.08	116475.440	3.0	182412.650	4.0	151.8686	26.02	0.11	131035.070	7.0	196881.470	7.0
151.6594	23.02	-4.85	88327.960	3.5	154265.200	3.5	151.8829	26.02	0.41	113739.620	6.0	179579.830	5.0
151.6640	26.02	-2.87	117521.910	4.0	183457.150	4.0	151.8914	27.02	-0.50	107297.000	1.5	173133.500	1.5
151.6649	9.02	-4.12	376814.020	2.5	442748.850	2.5	151.8934	23.02	-5.38	44345.820	3.5	110181.470	2.5
151.6650	26.02	-1.78	117521.910	4.0	183456.690	3.0	151.8942	26.02	-3.31	134549.000	3.0	200384.280	3.0
151.6666	28.01	-3.21	68735.980	2.5	134670.070	1.5	151.8960	30.02	-2.11	234866.900	1.0	300701.400	2.0
151.6667	28.03	0.19	122377.910	1.5	188311.940	2.5	151.8976	25.02	-0.51	111111.390	4.5	176945.200	4.5
151.6680	26.02	-1.43	116475.440	3.0	182408.910	3.0	151.9018	24.03	-0.67	234508.000	6.5	300340.000	5.5
151.6684	24.02	-0.03	43304.100	2.0	109237.400	1.0	151.9018	24.04	0.36	171736.000	2.0	237568.000	3.0
151.6712	17.03	-2.83	181643.000	2.0	247575.100	1.0	151.9041	10.03	-4.90	576353.000	0.5	642184.000	1.5
151.6727	26.01	-0.33	0.000	4.5	65931.460	3.5	151.9058	26.02	-1.31	136200.130	3.0	202030.380	3.0
151.6761	26.01	-2.80	26352.800	4.5	92282.760	3.5	151.9104	25.02	-4.27	71831.980	2.5	137660.240	3.5
151.6771	25.02	-0.37	110711.620	3.5	176641.140	3.5	151.9179	26.01	-7.53	21711.890	3.5	87536.900	3.5
151.6771	25.01	-3.46	44138.960	1.0	110068.500	2.0	151.9222	26.01	-5.50	21812.040	1.5	87635.200	0.5
151.6785	26.02	-0.36	135990.620	4.0	201919.530	4.0	151.9224	28.01	-2.71	55417.830	3.5	121240.900	3.5
151.6791	26.02	-0.84	123750.390	3.0	189679.070	3.0	151.9292	9.02	-4.92	387523.470	3.5	453343.620	2.5
151.6806	25.02	-0.74	110172.690	1.5	176100.710	0.5	151.9308	28.01	-5.85	9330.040	3.5	75149.480	4.5
151.6806	25.04	0.36	177862.000	3.5	243790.000	4.5	151.9309	23.01	-2.20	339.210	4.0	66158.600	4.0
151.6841	26.01	-0.15	8880.470	1.5	74606.970	2.5	151.9315	26.01	-4.19	26352.800	4.5	92171.950	4.5
151.6855	24.02	-0.84	49626.800	2.0	115552.700	3.0	151.9317	25.01	-2.37	44138.960	1.0	109958.000	0.0
151.6896	29.01	-1.61	70841.300	3.0	136765.380	4.0	151.9325	27.02	0.06	106764.900	4.5	172583.600	3.5
151.6903	14.01	-1.41	84004.520	1.5	149928.300	2.5	151.9325	27.02	0.06	106764.900	4.5	172583.600	3.5
151.6948	28.01	-1.92	68131.210	3.5	134053.050	2.5	151.9325	27.02	0.07	106764.900	4.5	172583.600	3.5
151.6984	26.02	-0.78	136235.840	1.0	202156.130	2.0	151.9349	26.01	-4.94	8680.470	1.5	74498.150	1.5
151.7004	25.03	-2.66	111710.400	2.0	177629.800	2.0	151.9370	28.01	-1.36	68156.570	1.5	133973.330	2.5
151.7005	28.01	-3.17	67694.640	2.5	133613.990	1.5	151.9383	23.01	-3.05	0.000	0.0	65816.200	1.0
151.7019	26.02	-1.30	70694.030	5.0	136612.780	4.0	151.9397	24.01	-9.51	11962.000	0.5	77777.580	0.5
151.7052	18.01	-1.97	145668.800	1.5	212586.110	2.5	151.9433	26.01	-2.84	26352.800	4.5	92166.810	5.5
151.7057	26.02	-1.22	116475.440	3.0	182392.550	2.0	151.9443	18.01	-4.96	143107.600	2.5	208921.200	1.5
151.7067	18.02	-1.82	174375.000	2.0	240291.660	2.0	151.9492	29.01	-1.57	67916.390	1.0	133727.870	2.0
151.7097	26.02	-3.47	73849.100	1.0	139764.480	2.0	151.9498	28.01	-1.54	70778.120	3.5	136589.350	3.5
151.7098	24.01	-6.90	20024.180	3.5	85939.500	4.5	151.9510	26.01	-3.57	13474.430	2.5	79285.100	2.5
151.7141	28.01	-2.25	68154.310	1.5	134067.760	1.5	151.9511	25.02	-0.38	110398.500	2.5	176209.150	1.5
151.7152	25.02	-1.00	112645.310	0.5	178558.300	1.5	151.9526	25.04	-0.44	178560.000	4.5	244370.000	3.5
151.7156	29.01	-1.43	70841.300	3.0	136754.110	2.0	151.9527	28.01	-1.70	55417.830	3.5	121227.800	2.5
151.7164	26.02	-0.55	136117.940	2.0	202030.380	3.0	151.9585	26.02	-1.37	70725.010	3.0	136532.450	2.0
151.7164	26.02	-1.07	116467.410	4.0	182379.860	5.0	151.9641	25.04	-0.33	177862.000	3.5	243667.000	2.5
151.7202	26.02	-1.12	136008.740	3.0	201919.530	4.0	151.9664	28.01	-1.88	56371.410	3.5	122175.420	2.5
151.7235	26.02	-2.55	117521.910	4.0	183431.280	5.0	151.9666	25.02	-1.65	111883.600	2.5	177687.540	3.5
151.7285	25.01												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	LUP	JUP
152.0330	26.01	-4.45	27620.390	2.5	93395.600	2.5	152.2886	27.02	-4.06	107530.100	3.5	173194.900	2.5
152.0367	28.01	-4.32	56371.010	3.5	122144.990	2.5	152.2926	25.02	-2.94	113676.530	2.5	179339.590	2.5
152.0392	28.01	-5.59	55417.830	3.5	121190.340	4.5	152.2990	28.01	-4.90	56424.490	1.5	122084.790	1.5
152.0411	26.01	-3.72	13474.430	2.5	79246.130	1.5	152.3004	26.01	-5.13	862.630	1.5	66522.320	2.5
152.0466	28.01	-4.43	56371.410	3.5	122140.710	4.5	152.3046	14.02	-4.29	176487.190	1.0	242145.100	1.0
152.0466	26.01	-2.68	13474.430	2.5	79243.730	1.5	152.3055	23.01	-6.16	339.210	4.0	65996.700	3.0
152.0514	25.02	-3.93	71831.980	2.5	137599.200	3.5	152.3096	28.01	-4.66	56424.490	1.5	122080.250	2.5
152.0518	28.01	-2.96	57080.550	3.5	122847.600	3.5	152.3098	9.01	-2.48	211866.130	3.0	277521.780	2.0
152.0531	28.01	-2.36	52205.950	3.5	117972.470	3.5	152.3129	10.01	-3.07	252798.480	.5	318452.820	1.5
152.0534	29.01	-5.52	73353.120	2.0	139119.500	3.0	152.3156	28.01	-1.24	70635.460	2.5	136288.600	2.5
152.0537	11.01	-2.10	299193.750	2.0	364960.000	1.0	152.3178	26.01	-4.56	20830.520	2.5	86482.750	3.5
152.0556	27.02	-1.17	73861.800	1.5	139627.200	1.5	152.3190	9.01	-1.62	211866.130	3.0	277517.800	3.0
152.0577	27.02	-2.63	105965.100	2.5	171729.600	2.5	152.3197	26.01	-5.51	8846.760	.5	74498.150	1.5
152.0585	26.01	-4.81	26352.800	4.5	92116.980	4.5	152.3213	28.01	-1.48	54262.630	3.5	119913.330	4.5
152.0613	26.02	-7.72	122346.610	3.0	188109.580	3.0	152.3249	25.00	-6.48	.0000	2.5	65649.130	2.5
152.0622	28.03	.37	121799.830	2.5	187562.390	3.5	152.3277	9.02	-4.65	390120.770	.5	455768.720	.5
152.0687	26.01	-4.69	21812.040	1.5	87571.800	2.5	152.3279	28.01	-1.63	67880.160	2.5	133528.020	3.5
152.0694	25.01	-4.43	43484.500	2.0	109243.950	3.0	152.3374	26.01	-2.32	1872.600	4.5	67516.370	5.5
152.0706	26.01	-7.05	21711.890	3.5	87470.800	4.5	152.3376	25.01	-4.22	32818.100	0.0	98461.760	1.0
152.0710	26.01	-6.26	21581.640	4.5	87340.400	5.5	152.3411	15.01	-2.65	65308.050	3.0	130950.200	2.0
152.0731	25.01	-4.21	43484.500	2.0	109242.360	2.0	152.3431	26.02	-4.84	121241.670	4.0	186882.980	3.0
152.0746	9.02	-3.16	376879.070	3.5	442635.270	3.5	152.3449	15.01	-6.65	65273.180	2.0	130913.700	3.0
152.0752	26.02	.03	121241.670	4.0	186998.600	4.0	152.3561	26.01	-5.96	977.030	.5	66612.740	1.5
152.0755	25.01	-4.25	43484.500	2.0	109241.310	1.0	152.3572	26.02	-1.60	136793.820	2.0	202429.040	1.0
152.0756	28.01	-1.98	57080.550	3.5	122837.330	4.5	152.3577	27.02	-4.90	73286.000	4.5	138921.000	4.5
152.0774	27.02	-2.07	73214.500	.5	138970.500	1.5	152.3587	9.01	-1.88	211887.190	2.0	277521.780	2.0
152.0839	28.01	-4.46	32523.540	3.5	98276.700	4.5	152.3619	9.01	-2.52	211887.190	2.0	277520.380	1.0
152.0862	25.02	-3.76	72183.330	3.5	137935.530	4.5	152.3658	9.02	-4.71	349266.200	3.5	414897.720	3.5
152.0874	24.01	-9.05	11962.000	.5	77713.660	1.5	152.3664	24.01	-9.45	12303.980	3.5	77935.240	2.5
152.0891	28.01	-3.22	56424.490	1.5	122175.420	2.5	152.3679	9.01	-2.65	211887.190	2.0	277517.800	3.0
152.0910	26.01	-6.41	862.630	1.5	66612.740	1.5	152.3699	25.02	-3.91	112057.800	3.5	177687.540	3.5
152.0930	28.01	-2.01	67694.640	2.5	133443.890	2.5	152.3719	27.02	-4.82	106954.700	2.5	172583.600	3.5
152.0935	25.01	-3.90	37851.150	3.0	103600.170	2.0	152.3719	27.02	-4.82	106954.700	2.5	172583.600	3.5
152.0943	28.01	-1.10	68154.310	1.5	133903.000	1.5	152.3719	27.02	-4.78	106954.700	2.5	172583.600	3.5
152.0974	23.01	-3.06	36.050	1.0	65783.400	0.0	152.3724	9.02	-3.35	349266.200	3.5	414894.890	4.5
152.0996	28.02	-1.66	115272.500	5.0	181018.900	5.0	152.3736	29.01	-4.96	73353.120	2.0	138981.300	2.0
152.1012	28.02	-3.00	71067.000	3.0	136812.700	2.0	152.3738	26.01	-4.47	384.770	3.5	66012.830	4.5
152.1031	24.01	-8.96	12032.720	1.5	77777.580	.5	152.3788	25.01	-3.92	32836.400	1.0	98462.340	2.0
152.1032	23.02	-5.55	44110.040	2.5	109854.870	3.5	152.3789	27.02	.10	107507.600	.5	173133.500	1.5
152.1051	28.02	-8.87	118115.300	2.0	183859.300	3.0	152.3801	25.01	-4.23	32836.400	1.0	98461.760	1.0
152.1088	25.02	-2.84	71395.270	.5	137137.690	1.5	152.3838	28.01	-1.51	56075.260	2.5	121699.020	1.5
152.1117	28.01	-2.20	70778.120	3.5	136519.280	4.5	152.3840	26.02	-3.13	136532.450	2.0	202156.130	2.0
152.1128	25.02	-9.95	112645.310	.5	178386.000	.5	152.3890	9.01	-2.63	211900.260	1.0	277521.780	2.0
152.1139	28.01	-1.05	54262.630	3.5	120002.860	3.5	152.3894	28.01	-1.40	68281.620	.5	133903.000	1.5
152.1176	25.02	-6.64	113078.340	1.5	178816.960	2.5	152.3908	28.01	-1.64	70706.770	1.5	136327.550	1.5
152.1187	28.01	-4.22	10663.890	1.5	76402.030	2.5	152.3910	26.02	-2.17	69695.730	4.0	135316.420	5.0
152.1191	28.01	-5.07	24788.200	1.5	90526.180	2.5	152.3923	9.01	-2.09	211900.260	1.0	277520.380	1.0
152.1222	26.01	-3.99	26352.800	4.5	92089.410	3.5	152.3956	26.03	-4.49	127928.100	1.5	193546.800	2.5
152.1274	26.02	-5.58	136185.170	5.0	201919.530	4.0	152.3987	25.00	-4.87	.0000	2.5	65617.370	3.5
152.1295	28.01	-3.86	54176.260	.5	119909.720	1.5	152.4007	25.03	-4.13	112013.300	3.0	177629.800	2.0
152.1396	27.02	-3.21	72083.300	4.5	137812.400	3.5	152.4109	27.02	-1.27	106764.900	4.5	172377.000	3.5
152.1422	9.01	-3.56	229550.110	2.0	295278.080	1.0	152.4114	26.01	-7.21	13673.210	1.5	79285.100	2.5
152.1461	9.01	-2.47	229551.790	1.0	295278.080	1.0	152.4158	24.02	-4.99	93765.600	2.0	159375.600	3.0
152.1469	9.01	-2.42	229550.110	2.0	295276.080	2.0	152.4223	25.01	-3.52	32856.950	3.0	98464.160	4.0
152.1491	24.02	-4.05	49827.700	3.0	115552.700	3.0	152.4245	28.03	-4.40	120901.800	3.5	186508.070	2.5
152.1507	9.01	-2.03	229551.790	1.0	295276.080	2.0	152.4246	25.01	-4.07	32856.950	3.0	98463.160	3.0
152.1523	9.01	-2.38	229554.450	0.0	295278.080	1.0	152.4259	15.01	-2.27	65308.050	3.0	130913.700	3.0
152.1590	9.01	-1.74	229550.110	2.0	295270.850	3.0	152.4288	27.01	-2.67	.0000	4.0	65604.400	3.0
152.1592	15.01	.02	65273.180	2.0	130993.800	3.0	152.4290	25.01	-3.70	32858.840	2.0	98463.160	3.0
152.1595	28.01	-6.61	56424.490	1.5	122144.990	2.5	152.4296	28.01	-1.74	68131.210	3.5	133735.260	2.5
152.1600	23.02	-4.04	87218.920	3.5	152939.200	2.5	152.4303	28.01	-7.75	68131.210	3.5	133734.980	3.5
152.1621	26.02	-9.32	136200.130	3.0	201919.530	4.0	152.4309	25.01	-4.08	32858.840	2.0	98462.340	2.0
152.1649	25.02	-3.98	71564.210	1.5	137282.400	2.5	152.4520	26.02	.36	113584.200	2.0	179178.620	3.0
152.1661	15.01	.24	65308.050	3.0	131025.700	4.0	152.4538	25.02	-2.03	111883.600	2.5	177477.230	2.5
152.1663	26.02	-2.48	69836.830	3.0	135554.410	4.0	152.4562	26.01	-2.76	30764.460	3.5	96357.070	3.5
152.1669	28.01	-1.56	70358.940	4.5	136076.260	4.5	152.4649	26.02	.38	113605.370	3.0	179194.220	4.0
152.1676	26.01	-4.78	20830.520	2.5	86547.550	2.5	152.4665	26.02	-1.54	116898.220	2.0	182486.400	1.0
152.1719	28.01	-2.15	56371.410	3.5	122086.580	3.5	152.4681	25.01	-4.01	14325.860	4.0	79913.350	4.0
152.1755	26.01	-3.38	20830.520	2.5	86544.140	1.5	152.4761	28.01	-1.89	70706.770	1.5	136290.830	.5
152.1771	14.01	-4.34	43107.970	2.5	108820.900	2.5	152.4764	28.01	-4.30	68131.210	3.5	133715.130	4.5
152.1842	28.01	-3.75	57080.550	3.5	122790.410	4.5	152.4770	25.02	-2.70	111111.390	4.5	176695.060	4.5
152.1845	26.01	-4.69	667.640	2.5	66377.370	3.5	152.4797	26.02	-1.30	116898.220	2.0	182480.720	2.0
152.1848	23.01	-2.82	106.630	2.0	65816.200	1.0	152.4813	28.01	-2.46	70706.770	1.5	136288.600	2.5
152.1867	22.01	-2.44	4897.600	3.5	70606.350	2.5	152.4823	23.01	-7.47	208.890	3.0	65790.280	4.0
152.1880	26.01	-4.17	27620.390	2.5	93328.600	1.5	152.4830	28.02	-2.69	71383.700	2.0	136964.800	3.0
152.1887	28.01	-2.93	68154.310	1.5	133862.210	1.5	152.4833	28.01	-1.03	68154.310	1.5	133735.260	2.5
152.1902	26.02	.03	136185.170	5.0	201892.440	5.0	152.4841	28.01	-2.46	68281.620	.5	133862.210	1.5
152.1991	28.01	-2.11	68154.310	1.5	133857.730	.5	152.4853	26.01	-6.82	.			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
152.5404	27.02	-2.86	108052.900	2.5	173609.300	1.5	152.7524	28.01	-2.08	53634.620	1.5	119100.060	1.5
152.5404	27.02	-2.86	108052.900	2.5	173609.300	1.5	152.7536	9.02	-3.32	376814.020	2.5	442278.930	2.5
152.5404	27.02	-2.86	108052.900	2.5	173609.300	1.5	152.7569	24.02	-3.82	50089.200	4.0	115552.700	3.0
152.5405	26.01	-7.92	0.000	4.5	65556.340	4.5	152.7610	26.02	-1.02	134976.220	3.0	200437.940	2.0
152.5420	28.01	-1.25	52738.450	2.5	118294.170	3.5	152.7655	26.01	-2.52	21308.080	1.5	86767.870	2.5
152.5437	24.02	-4.09	49626.800	2.0	115181.800	2.0	152.7656	26.02	-2.25	77075.300	1.0	142535.070	2.0
152.5437	10.03	-4.83	576353.000	.5	641908.000	.5	152.7658	28.01	-2.53	68154.310	1.5	133613.990	1.5
152.5483	5.00	-3.32	0.000	.5	65553.000	.5	152.7664	25.01	-4.27	44745.460	2.0	110204.900	3.0
152.5503	25.02	-4.68	113676.530	2.5	179228.690	1.5	152.7687	28.03	-.02	110402.850	4.5	175861.270	3.5
152.5532	15.00	-3.21	11360.800	1.5	76911.700	.5	152.7734	26.02	-3.57	70728.750	4.0	136185.170	5.0
152.5555	15.04	-2.03	410631.100	1.5	476181.000	1.5	152.7745	26.02	.08	116316.630	5.0	181772.590	6.0
152.5555	15.04	-1.08	410631.100	2.5	476181.000	1.5	152.7746	23.03	-.44	151449.100	0.0	216905.000	1.0
152.5555	15.04	-1.34	410631.100	1.5	476181.000	.5	152.7768	26.02	-.64	116937.570	1.0	182392.550	2.0
152.5563	23.01	-2.43	13490.840	2.0	79040.400	3.0	152.7805	27.02	.39	106489.200	3.5	171942.600	4.5
152.5571	24.01	-6.91	20024.180	3.5	85573.420	3.5	152.7828	27.02	-2.17	73861.800	1.5	139314.200	.5
152.5580	26.02	-1.56	116937.570	1.0	182486.400	1.0	152.7859	23.01	-6.67	339.210	4.0	65790.280	4.0
152.5630	26.01	-6.19	384.770	3.5	65931.460	3.5	152.7917	26.02	-1.42	116380.070	1.0	181828.660	2.0
152.5635	26.02	-.21	116898.220	2.0	182444.700	3.0	152.7938	27.02	-.46	108403.400	1.5	173851.100	.5
152.5635	29.01	-1.19	73595.640	1.0	139142.100	2.0	152.7956	19.02	-2.32	238455.100	.5	303902.000	1.5
152.5644	29.01	-1.11	71531.500	3.0	137077.600	3.0	152.7965	28.01	-.89	68709.760	.5	134156.280	1.5
152.5662	29.01	-1.91	73353.120	2.0	138898.430	1.0	152.7967	26.02	-.36	134937.840	2.0	200384.280	3.0
152.5692	26.02	-1.89	69695.730	4.0	135239.740	4.0	152.7973	28.02	-1.94	117606.500	3.0	183052.700	4.0
152.5709	26.02	-1.14	113635.340	4.0	179178.620	3.0	152.7982	28.01	-2.50	54557.050	4.5	120002.860	3.5
152.5712	26.02	-1.60	116937.570	1.0	182480.720	2.0	152.7985	23.01	-6.79	13594.730	2.0	79040.400	3.0
152.5715	24.01	-8.63	0.000	2.5	65543.060	3.5	152.8014	26.02	-1.54	134360.400	4.0	199804.810	4.0
152.5736	28.01	-1.96	70748.700	.5	136290.830	.5	152.8056	26.02	-.30	120826.170	2.0	186268.790	2.0
152.5742	27.02	-4.56	72270.500	3.5	137812.400	3.5	152.8066	26.02	-3.21	69836.830	3.0	135279.040	2.0
152.5756	29.01	-.72	71493.680	2.0	137034.970	3.0	152.8087	26.02	-2.43	69837.760	2.0	135279.040	2.0
152.5769	23.03	-.79	151567.300	2.0	217108.000	2.0	152.8141	25.04	.22	177314.000	2.5	242753.000	3.5
152.5778	25.02	-3.82	71395.270	.5	136935.600	.5	152.8179	25.01	-3.54	38366.070	2.0	103803.440	3.0
152.5798	26.02	.55	113677.010	5.0	179216.470	6.0	152.8201	26.02	-1.83	134265.420	2.0	199701.820	3.0
152.5800	9.02	-4.92	417970.800	1.5	483510.170	2.5	152.8206	29.02	-1.86	128679.400	2.5	194115.600	3.5
152.5836	5.00	-3.02	15.150	1.5	65553.000	.5	152.8227	24.02	-4.70	50408.200	5.0	115843.500	6.0
152.5884	29.02	-1.95	63143.600	2.5	128679.400	2.5	152.8261	26.02	-4.83	116975.050	2.0	182408.910	3.0
152.6006	26.02	.21	113677.010	5.0	179207.570	5.0	152.8289	26.02	-3.41	77102.430	2.0	125235.070	2.0
152.6024	25.02	.07	111111.390	4.5	176641.140	3.5	152.8318	23.01	-5.31	13609.000	4.0	79040.400	3.0
152.6024	26.02	-1.13	121468.820	5.0	186998.600	4.0	152.8329	8.02	-2.04	313801.070	0.0	379232.000	1.0
152.6045	25.01	-2.41	44899.820	3.0	110428.700	4.0	152.8374	28.02	-2.67	71383.700	2.0	136812.700	2.0
152.6100	27.02	-.24	105008.700	3.5	170535.200	4.5	152.8375	26.02	-2.50	69788.190	1.0	135217.170	1.0
152.6100	27.02	-.24	105008.700	3.5	170535.200	4.5	152.8384	24.02	-3.44	94374.700	4.0	159803.300	4.0
152.6100	27.02	-.24	105008.700	3.5	170535.200	4.5	152.8411	28.01	-2.44	57420.160	2.5	122847.600	3.5
152.6124	28.01	-2.72	53037.930	2.5	118563.390	3.5	152.8427	24.01	-3.83	20512.750	5.5	85939.500	4.5
152.6149	13.03	-1.17	624720.500	1.0	690244.900	0.0	152.8443	26.01	-3.67	26932.740	.5	92358.800	1.5
152.6156	28.01	-4.32	1506.940	1.5	67031.020	.5	152.8452	29.01	-2.06	71493.680	2.0	136919.350	3.0
152.6159	26.02	-4.48	134360.400	4.0	199884.390	5.0	152.8506	28.01	-.85	70778.120	3.5	136201.460	3.5
152.6200	28.02	-3.56	71841.900	1.0	137364.100	1.0	152.8531	27.02	.23	106954.700	2.5	172377.000	3.5
152.6317	26.02	-.93	113677.010	5.0	179194.220	4.0	152.8557	24.01	-5.61	20518.330	3.5	85939.500	4.5
152.6325	28.01	-3.16	51557.850	3.5	117074.700	3.5	152.8561	24.02	-3.14	66027.800	4.0	131448.800	5.0
152.6364	26.01	-1.82	30764.460	3.5	96279.650	2.5	152.8593	24.01	-4.56	20519.850	4.5	85939.500	4.5
152.6384	26.02	-1.06	122628.340	2.0	188142.640	2.0	152.8598	25.02	-3.53	112057.800	3.5	177477.230	2.5
152.6453	26.02	-3.15	116975.050	2.0	182486.400	1.0	152.8607	28.01	-3.42	70635.460	2.5	136054.500	1.5
152.6468	26.02	-.97	116898.220	2.0	182408.910	3.0	152.8641	26.02	-.87	136612.780	4.0	202030.380	3.0
152.6473	28.01	-1.59	70778.120	3.5	136288.600	2.5	152.8643	26.02	-4.37	116975.050	2.0	182392.550	2.0
152.6507	26.02	-1.58	116316.630	5.0	181825.670	4.0	152.8680	17.03	-.49	247575.100	1.0	312991.000	1.0
152.6507	23.02	-8.89	44345.820	3.5	109854.870	3.5	152.8681	25.02	-3.74	72183.330	3.5	137599.200	3.5
152.6531	26.01	-.88	18360.650	1.5	83868.650	2.5	152.8700	28.01	-4.92	70635.460	2.5	136050.530	2.5
152.6545	28.01	-2.80	71770.830	2.5	137278.220	1.5	152.8706	29.02	-1.92	78779.400	1.5	144194.200	2.5
152.6557	24.02	-3.50	43286.400	4.0	108793.300	3.0	152.8724	25.01	-5.34	14325.860	4.0	79739.880	5.0
152.6585	26.02	-2.68	116975.050	2.0	182480.720	2.0	152.8768	26.02	-2.13	117068.560	3.0	182480.720	2.0
152.6585	27.02	.12	107297.000	1.5	172802.700	2.5	152.8802	26.01	-7.86	667.640	2.5	66078.340	2.5
152.6624	26.03	-.49	127764.700	.5	193268.700	1.5	152.8803	26.02	-.82	116419.390	2.0	181830.020	3.0
152.6639	26.02	-1.96	122628.340	2.0	188131.700	1.0	152.8835	26.02	-1.39	116419.390	2.0	181828.660	2.0
152.6669	17.03	-1.50	182073.000	1.0	247575.100	1.0	152.8851	25.02	-2.87	111776.600	1.5	177185.180	.5
152.6683	27.02	-2.83	105965.100	2.5	171466.600	2.5	152.8864	26.02	-.36	134976.220	3.0	200384.280	3.0
152.6683	27.02	-2.83	105965.100	2.5	171466.600	2.5	152.8871	20.02	-2.20	214334.060	2.0	279741.800	2.0
152.6683	27.02	-.64	105965.100	2.5	171466.600	2.5	152.8885	23.02	-2.79	78880.850	2.5	153288.000	1.5
152.6701	14.01	-.75	0.000	.5	65500.730	.5	152.8938	28.01	-2.04	53037.930	2.5	118442.810	1.5
152.6702	28.01	-1.63	56424.490	1.5	121925.160	.5	152.8984	26.02	-2.09	69836.830	3.0	135239.740	4.0
152.6715	26.02	-.15	134937.840	2.0	200437.940	2.0	152.8990	28.01	-2.33	54262.630	3.5	119665.290	2.5
152.6734	10.01	-2.46	252953.540	1.5	318452.820	1.5	152.9026	26.02	-4.28	69695.730	4.0	135096.840	3.0
152.6766	26.02	-1.14	136532.450	2.0	202030.380	3.0	152.9055	9.02	-4.65	376879.070	3.5	442278.930	2.5
152.6771	23.01	-5.81	13542.680	3.0	79040.400	3.0	152.9146	28.01	-3.87	70635.460	2.5	136031.430	2.5
152.6850	26.02	-.73	116898.220	2.0	182392.550	2.0	152.9201	28.01	-3.42	54262.630	3.5	119656.250	3.5
152.6871	25.02	-2.95	71395.270	.5	136888.700	1.5	152.9217	26.02	-3.88	70725.010	3.0	136117.940	2.0
152.6874	27.01	-6.97	3350.500	5.0	68843.800	4.0	152.9265	27.02	-3.93	72270.500	3.5	137661.400	4.5
152.6887	25.02	-2.23	111776.600	1.5	177269.340	1.5	152.9316	17.03	-2.32	187008.000	1.0	252396.700	2.0
152.6902	26.02	-.75	116316.630	5.0	181808.700	5.0	152.9353	28.01	-1.84	70358.940	4.5	135746.060	3.0
152.6922	29.01	-1.68	73101.870	1.0	138593.100	1.0	152.937						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
153.0224	27.02	-2.62	76518.900	5.5	141868.800	6.5	153.2322	29.01	-3.89	71493.680	2.0	136754.110	2.0
153.0231	27.02	-2.79	106591.900	1.5	171941.500	5.5	153.2332	26.02	-3.05	69836.830	3.0	135096.840	3.0
153.0237	26.02	-3.35	134976.220	3.0	200325.560	4.0	153.2332	26.02	-1.43	121008.780	3.0	186268.790	2.0
153.0262	26.01	-5.43	21581.640	4.5	86929.920	3.5	153.2354	26.02	-2.43	69837.760	2.0	135096.840	3.0
153.0275	28.01	-4.54	70706.770	1.5	136054.500	1.5	153.2370	26.02	-1.92	123697.180	2.0	188955.560	3.0
153.0287	12.02	-3.92	467378.500	1.0	532725.700	2.0	153.2373	18.01	-2.24	138243.550	1.5	203501.800	2.5
153.0297	27.02	-2.25	105008.700	3.5	170355.500	2.5	153.2393	28.02	-4.96	78303.100	2.0	143560.500	2.0
153.0306	24.02	-3.88	94029.200	3.0	159375.600	3.0	153.2431	26.02	-1.70	134549.000	3.0	199804.810	4.0
153.0360	26.02	-3.36	117068.560	3.0	182412.650	4.0	153.2474	26.02	-1.45	119697.640	2.0	184951.620	3.0
153.0368	25.02	-2.25	111601.450	5.5	176945.200	4.5	153.2488	25.02	-4.08	72183.330	3.5	137436.700	4.5
153.0368	28.01	-4.10	70706.770	1.5	136050.530	2.5	153.2495	26.02	-1.80	82382.870	3.0	147635.950	3.0
153.0423	26.02	-4.10	134360.400	4.0	199701.820	3.0	153.2514	15.01	-1.34	0.000	0.0	65252.250	1.0
153.0426	26.02	-4.13	116467.410	4.0	181808.700	5.0	153.2593	30.02	-1.87	235452.500	2.0	300701.400	2.0
153.0427	26.01	-6.94	13904.870	5	79246.130	1.5	153.2594	25.01	-3.36	44745.460	2.0	109994.300	1.0
153.0428	28.01	-4.44	53037.930	2.5	118379.110	2.5	153.2603	13.02	-3.24	143633.380	5	208881.830	1.5
153.0429	26.02	-1.41	93388.750	4.0	158729.890	3.0	153.2647	26.03	-1.12	128540.400	3.5	193787.000	4.5
153.0430	26.02	-1.32	135096.840	3.0	200437.940	2.0	153.2668	11.02	-2.65	406200.900	2.5	471446.600	1.5
153.0442	26.03	-2.44	127928.100	1.5	193268.700	1.5	153.2693	25.02	-2.41	114094.970	1.5	179339.590	2.5
153.0447	20.01	-1.83	25414.400	1.5	90754.800	2.5	153.2710	27.02	-1.98	73726.600	2.5	138970.500	1.5
153.0448	26.02	-2.88	117068.560	3.0	182408.910	3.0	153.2713	26.02	-2.26	122898.840	2.0	188142.640	2.0
153.0465	26.02	-1.59	135316.420	5.0	200656.020	6.0	153.2740	28.01	-1.08	56075.260	2.5	121317.890	3.5
153.0467	20.01	-2.79	25414.400	1.5	90753.920	1.5	153.2793	27.02	-2.90	106489.200	3.5	171729.600	2.5
153.0483	26.01	-4.87	13904.870	5	79243.730	1.5	153.2802	29.01	-1.54	73353.120	2.0	138593.100	1.0
153.0493	23.01	-4.47	2808.760	3.0	68147.200	4.0	153.2802	26.04	-1.76	195942.000	3.0	261182.000	3.0
153.0510	23.03	-2.23	151567.300	2.0	216905.000	1.0	153.2814	24.02	-2.08	66027.800	4.0	131267.300	4.0
153.0516	26.02	-2.27	93392.450	3.0	158729.890	3.0	153.2814	26.01	-1.12	21308.080	1.5	86547.550	2.5
153.0616	9.02	-4.13	376814.020	2.5	442147.190	2.5	153.2827	28.01	-5.44	25036.380	2.5	90275.300	3.5
153.0618	15.00	-1.04	11376.400	2.5	76709.500	3.5	153.2864	25.02	-3.09	113991.310	5	179228.690	1.5
153.0634	28.01	-2.26	54557.050	4.5	119889.470	5.5	153.2883	26.02	-1.85	136793.820	2.0	202030.380	3.0
153.0635	28.01	-2.15	68281.620	5	133613.990	1.5	153.2895	26.01	-2.39	21308.080	1.5	86544.140	1.5
153.0649	28.01	-1.67	68735.980	2.5	134067.760	1.5	153.2931	28.01	-3.99	70748.700	5	135983.220	1.5
153.0670	11.01	-2.29	298169.140	1.0	363500.000	1.0	153.2931	27.02	-2.11	73540.200	3.5	138774.700	2.5
153.0710	28.01	-2.79	67880.160	2.5	133209.300	2.5	153.2945	27.02	-2.97	106591.900	1.5	171825.800	1.5
153.0815	25.01	-4.21	70706.770	1.5	136031.430	2.5	153.2952	30.02	-3.01	235452.500	2.0	300686.100	3.0
153.0819	28.02	-4.44	71564.210	1.5	136888.700	1.5	153.2959	26.02	-1.46	136797.050	3.0	202030.380	3.0
153.0831	26.02	-1.04	117068.560	3.0	182392.550	2.0	153.2970	26.02	-1.27	122898.840	2.0	188131.700	1.0
153.0853	25.01	-3.69	44745.460	2.0	110068.500	2.0	153.2981	25.02	-2.39	71564.210	1.5	136796.610	2.5
153.0905	23.02	-2.45	88944.380	2.5	154265.200	3.5	153.2995	26.02	-1.56	82382.870	3.0	147614.650	2.0
153.0915	27.02	-2.85	103690.800	5	169011.200	5	153.2996	23.02	-2.66	87880.850	2.5	153112.600	3.5
153.0936	25.01	-4.24	14593.820	3.0	79913.350	4.0	153.3029	28.01	-1.51	51045.460	4.5	116275.810	3.5
153.0993	28.01	-1.14	68735.980	2.5	134053.050	2.5	153.3037	25.04	-1.14	178560.000	4.5	243790.000	4.5
153.0996	26.02	-3.06	93412.930	2.0	158729.890	3.0	153.3042	27.02	-1.81	103655.700	1.5	168885.500	1.5
153.1065	25.01	-3.73	36274.290	2.0	101588.300	3.0	153.3067	26.02	-1.92	135096.840	3.0	200325.560	4.0
153.1087	26.02	-1.06	122829.550	3.0	188142.640	2.0	153.3093	30.02	-2.59	79273.600	2.0	144501.200	3.0
153.1096	28.01	-3.33	68131.210	3.5	133443.890	2.5	153.3103	24.02	-2.19	65890.900	3.0	131118.100	3.0
153.1128	26.01	-4.60	384.770	3.5	65696.110	4.5	153.3129	24.02	-1.87	66222.700	5.0	131448.800	5.0
153.1158	28.01	-1.53	67880.160	2.5	133190.190	1.5	153.3146	26.01	-4.83	22409.820	5	87635.200	5
153.1184	28.01	-3.83	70635.460	2.5	135944.400	3.5	153.3153	9.02	-4.62	387523.470	3.5	452748.540	2.5
153.1214	25.02	-1.63	113078.340	1.5	178386.000	5	153.3154	26.02	-2.81	82410.940	2.0	147635.950	3.0
153.1235	26.02	-1.73	136612.780	4.0	201919.530	4.0	153.3156	28.01	-4.55	66571.340	2.5	131796.260	2.5
153.1260	26.02	-2.68	119697.640	2.0	185003.350	2.0	153.3157	24.02	-4.36	49491.000	1.0	114715.900	1.0
153.1260	25.02	-3.51	17831.980	2.5	137137.690	1.5	153.3209	17.03	-1.05	187174.000	2.0	252396.700	2.0
153.1267	38.01	-4.60	14555.900	0.0	79861.297	0.0	153.3219	14.03	-1.30	250008.020	2.5	315230.270	2.5
153.1273	25.00	-5.25	0.000	2.5	65305.130	3.5	153.3219	14.03	0.00	250008.020	2.5	315230.270	3.5
153.1274	25.01	-3.72	44899.820	3.0	110204.900	3.0	153.3222	14.03	-1.15	250008.140	1.5	315230.270	2.5
153.1294	26.02	-1.12	82001.730	2.0	147305.970	3.0	153.3242	26.02	-1.98	122921.370	1.0	188142.640	2.0
153.1328	29.01	-1.29	73595.640	1.0	138898.430	1.0	153.3254	26.02	-1.37	135217.170	1.0	200437.940	2.0
153.1333	10.01	-2.23	252953.540	1.5	318256.130	2.5	153.3317	23.01	-4.30	2687.010	2.0	67905.100	3.0
153.1354	9.01	-4.92	211887.190	2.0	277188.860	1.0	153.3318	26.01	-6.04	21711.890	3.5	86929.920	3.5
153.1384	26.02	-2.83	97888.100	1.0	135088.600	0.0	153.3337	26.02	-2.44	93512.640	4.0	158729.890	3.0
153.1403	26.02	-2.71	122843.030	1.0	188142.640	2.0	153.3353	28.01	-3.80	66579.710	1.5	131796.260	2.5
153.1422	23.01	-7.86	13741.610	3.0	79040.400	3.0	153.3353	26.01	-4.85	13474.430	2.5	78690.980	2.5
153.1426	15.00	-0.94	11360.800	1.5	76659.400	2.5	153.3366	24.03	-2.12	109950.000	2.5	175166.000	3.5
153.1474	26.02	-1.95	70694.030	5.0	135990.620	4.0	153.3373	26.01	-6.18	862.630	1.5	66078.340	2.5
153.1492	30.02	-2.42	238205.500	1.0	303501.300	2.0	153.3427	14.01	-1.44	287.320	1.5	65500.730	5
153.1519	26.02	-0.07	121008.780	3.0	186303.440	3.0	153.3431	26.02	-0.72	121241.670	4.0	186456.890	5.0
153.1555	26.02	-2.20	118163.560	2.0	183456.690	3.0	153.3468	25.01	-4.83	29869.110	2.0	95808.760	1.0
153.1586	27.02	-2.45	103593.700	2.5	168885.500	1.5	153.3490	26.02	-1.66	122898.840	2.0	188109.580	3.0
153.1588	29.02	-1.55	63143.600	2.5	128435.300	1.5	153.3492	26.02	-1.17	118246.520	3.0	183457.150	4.0
153.1623	28.02	-0.80	116192.100	4.0	181482.300	4.0	153.3496	26.02	-2.20	77102.430	2.0	142312.900	3.0
153.1634	28.01	-3.39	67880.160	2.5	133169.920	3.5	153.3499	26.02	-1.49	122921.370	1.0	188131.700	1.0
153.1638	28.01	-1.79	68154.310	1.5	133443.890	2.5	153.3503	26.02	-1.19	118246.520	3.0	183456.690	3.0
153.1640	26.02	-3.34	82001.730	2.0	147291.210	2.0	153.3556	28.01	-4.96	70778.120	3.5	135986.060	3.5
153.1654	29.02	-2.05	60804.900	4.5	126093.800	3.5	153.3556	23.02	-4.67	44646.960	4.5	109854.870	3.5
153.1657	26.02	-1.31	117521.910	4.0	182810.660	5.0	153.3578	26.04	-1.90	195212.000	2.0	260419.000	2.0
153.1659	26.02	-1.77	122843.030	1.0	188131.700	1.0	153.3585	25.01	-6.66	14593.820	3.0	79800.520	4.0
153.1661	9.01	-3.83	211900.260	1.0	277188.860	1.0	153.3604	27.02	-3.58	108403.400	1.5	173609.300	1.5
153.1675													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
153.4339	28.01	-3.07	51557.850	3.5	116732.510	2.5	153.6824	26.02	-2.20	122944.150	4.0	188013.400	4.0
153.4355	26.02	-1.28	93388.750	4.0	158562.700	4.0	153.6938	28.01	-2.87	57080.550	3.5	122144.990	2.5
153.4404	17.03	-0.77	247575.100	1.0	312747.000	0.0	153.6939	28.01	-1.77	1506.940	1.5	66571.340	2.5
153.4411	26.01	-7.04	384.770	3.5	65556.340	4.5	153.6972	23.02	-1.60	89417.500	3.5	154480.500	4.5
153.4442	26.02	-2.38	93392.450	3.0	158562.700	4.0	153.6974	27.02	-0.30	103386.700	4.5	168449.600	3.5
153.4478	26.01	-3.29	13673.210	1.5	78841.970	5.0	153.6980	6.00	-4.53	10192.630	2.0	75255.270	2.0
153.4479	25.01	-3.47	44899.820	3.0	110068.500	2.0	153.6991	30.02	-1.73	235623.900	3.0	300686.100	3.0
153.4484	15.01	-2.70	21576.200	0.0	86744.700	1.0	153.7001	26.02	-1.29	121241.670	4.0	186303.440	3.0
153.4488	13.02	-2.99	143713.500	1.5	208881.830	2.5	153.7006	26.02	-2.16	82494.880	1.0	147556.450	1.0
153.4488	13.02	-3.94	143713.500	1.5	208881.830	1.5	153.7011	6.00	-6.42	10192.630	2.0	75253.970	1.0
153.4519	28.01	-2.38	68735.980	2.5	133903.000	1.5	153.7017	26.01	-3.78	7955.240	3.5	73016.330	3.5
153.4536	28.01	-4.46	70778.120	3.5	135944.400	3.5	153.7024	24.01	-6.81	20512.620	2.5	85573.420	3.5
153.4543	28.01	-4.56	71770.830	2.5	136936.820	3.5	153.7039	28.01	-6.64	57080.550	3.5	122140.710	4.5
153.4551	28.01	-1.21	56075.260	2.5	121240.900	3.5	153.7043	28.02	-2.54	75123.800	5.0	140183.800	4.0
153.4556	26.02	-0.65	122944.150	4.0	188109.580	3.0	153.7082	23.02	-0.97	87880.850	2.5	152939.200	2.5
153.4564	30.02	-1.88	238336.200	2.0	303501.300	2.0	153.7106	26.02	-2.11	121941.290	4.0	186998.600	4.0
153.4623	29.01	-1.82	71531.500	3.0	136694.100	4.0	153.7120	25.02	-3.59	17831.980	2.5	136888.700	1.5
153.4648	25.01	-7.55	29919.220	2.0	95080.760	1.0	153.7138	26.01	-7.40	21711.890	3.5	86767.870	2.5
153.4710	26.02	-0.63	135279.040	2.0	200437.940	2.0	153.7159	24.01	-5.03	20518.330	3.5	85573.420	3.5
153.4713	28.03	-0.48	110402.850	4.5	175561.600	4.5	153.7195	24.01	-4.08	20519.850	4.5	85573.420	3.5
153.4750	15.00	-4.89	0.000	1.5	65157.200	2.5	153.7196	27.02	-1.19	107530.100	3.5	172583.600	3.5
153.4758	24.01	-9.73	0.000	2.5	65156.840	2.5	153.7196	27.02	-1.19	107530.100	3.5	172583.600	3.5
153.4769	15.00	-5.68	0.000	1.5	65156.400	1.5	153.7196	27.02	-1.15	107530.100	3.5	172583.600	3.5
153.4785	26.02	-3.66	84369.920	2.0	149525.630	2.0	153.7213	28.01	-2.89	54262.630	3.5	119315.440	2.5
153.4788	26.02	-0.72	135239.740	4.0	200395.330	5.0	153.7215	28.01	-1.54	68156.570	1.5	133209.300	2.5
153.4799	24.02	-5.42	43304.100	2.0	108459.200	2.0	153.7239	25.02	-1.90	114287.910	2.5	179339.500	2.5
153.4828	27.01	-1.84	0.000	4.0	65153.900	4.0	153.7245	28.03	-0.05	111187.860	3.5	176239.320	2.5
153.4829	29.01	-3.96	71919.930	3.0	137073.750	2.0	153.7260	23.01	-4.24	2687.010	2.0	67737.800	2.0
153.4853	26.02	-2.02	134549.000	3.0	199701.820	3.0	153.7262	17.03	-4.45	187346.000	3.0	252396.700	2.0
153.4860	28.01	-1.22	56075.260	2.5	121227.800	2.5	153.7271	25.02	-2.47	68899.200	4.5	133949.540	4.5
153.4928	26.02	-4.31	69788.190	1.0	134937.840	2.0	153.7278	26.02	-2.20	93512.640	4.0	158562.700	4.0
153.4934	28.03	-0.36	121799.830	2.5	186949.220	1.5	153.7303	26.02	-3.15	121949.620	5.0	186998.600	4.0
153.4955	27.02	-2.91	106591.900	1.5	171740.400	1.5	153.7324	27.02	-2.90	73726.600	2.5	138774.700	2.5
153.4955	27.02	-2.91	106591.900	1.5	171740.400	1.5	153.7331	29.02	-1.65	80305.200	1.5	145353.000	1.5
153.4955	27.02	-0.74	106591.900	1.5	171740.400	1.5	153.7387	26.02	-3.46	70694.030	5.0	135739.470	6.0
153.5002	29.01	-1.68	68447.570	3.0	133594.050	3.0	153.7407	24.02	-3.08	66222.700	5.0	131267.300	4.0
153.5025	26.02	-1.74	82410.940	2.0	147556.450	1.0	153.7421	9.02	-3.87	387726.840	4.5	452770.850	3.5
153.5048	26.02	-0.78	135239.740	4.0	200384.280	3.0	153.7435	26.02	-1.01	97041.380	3.0	162084.800	2.0
153.5108	27.02	-0.89	108052.900	2.5	173194.900	2.5	153.7470	28.01	-1.15	51045.460	4.5	116087.360	4.5
153.5145	25.02	-0.97	113676.530	2.5	178816.960	2.5	153.7485	26.02	-1.51	70694.030	5.0	135735.310	5.0
153.5169	26.02	-3.69	69836.830	3.0	134976.220	3.0	153.7508	28.01	-1.57	56075.260	2.5	121115.590	1.5
153.5191	26.02	-3.67	69837.760	2.0	134976.220	3.0	153.7553	27.02	-2.47	106489.200	3.5	171527.600	3.5
153.5209	27.02	-2.19	106591.900	1.5	171729.600	2.5	153.7558	29.01	-0.68	69704.800	4.0	134743.000	4.0
153.5214	24.02	-4.51	43321.700	3.0	108459.200	2.0	153.7624	25.03	-2.30	131462.500	5.0	196497.900	6.0
153.5219	26.02	-0.00	121241.670	4.0	186378.940	4.0	153.7666	28.01	-1.76	68156.570	1.5	133190.190	1.5
153.5238	26.01	-5.83	7955.240	3.5	73091.700	4.5	153.7676	27.02	-0.59	103655.700	1.5	168688.900	2.5
153.5245	27.01	-4.26	4560.800	3.0	69696.970	3.0	153.7698	14.02	-3.33	175230.010	0.0	240262.280	1.0
153.5303	25.02	-2.47	114094.970	1.5	179228.690	1.5	153.7734	28.01	-2.40	53601.190	1.5	118631.950	.5
153.5321	23.01	-4.12	2604.820	1.0	67737.800	2.0	153.7735	27.01	-4.23	4028.900	4.0	69059.590	3.0
153.5377	25.02	-2.60	114209.010	3.5	179339.590	2.5	153.7799	24.03	-4.01	109950.000	2.5	174978.000	2.5
153.5399	25.01	-7.54	29951.120	1.0	95080.760	1.0	153.7869	38.01	-0.50	14836.240	0.0	79861.284	0.0
153.5426	28.01	-3.90	71770.830	2.5	136899.330	1.5	153.7869	38.01	-1.80	14836.240	0.0	79861.284	0.0
153.5427	26.02	-0.90	121468.820	5.0	186597.300	6.0	153.7873	26.02	-1.51	93392.450	3.0	158417.310	2.0
153.5498	28.01	-2.96	55018.710	2.5	120144.170	2.5	153.7906	9.02	-4.98	355981.900	1.5	421005.360	.5
153.5520	29.01	-0.80	71919.930	3.0	137044.450	4.0	153.7960	14.02	-2.98	175263.100	1.0	240284.280	2.0
153.5536	28.01	-4.99	70778.120	3.5	135901.960	2.5	153.7963	26.02	-2.16	119982.260	1.0	185003.350	2.0
153.5568	26.02	-3.16	136797.050	3.0	201919.530	4.0	153.7982	28.01	-5.05	231080.280	2.5	88128.560	2.5
153.5632	26.02	-2.62	82494.880	1.0	147614.650	2.0	153.8041	26.01	-2.17	13673.210	1.5	78690.980	2.5
153.5744	29.01	-2.57	71919.930	3.0	137034.970	3.0	153.8091	8.01	-4.49	185235.360	.5	250251.000	.5
153.5744	16.01	-4.06	14853.000	1.5	79968.000	.5	153.8091	8.01	-4.23	185235.360	.5	250251.000	1.5
153.5752	12.03	-0.98	612240.300	1.5	677355.000	1.5	153.8103	26.01	-2.86	27314.930	3.5	92330.100	2.5
153.5763	27.02	-0.54	105965.100	2.5	171079.300	3.5	153.8125	26.02	-0.84	118442.920	3.0	183457.150	4.0
153.5763	27.02	-0.54	105965.100	2.5	171079.300	3.5	153.8135	26.02	-4.19	50276.100	4.0	115289.910	5.0
153.5763	27.02	-0.53	105965.100	2.5	171079.300	3.5	153.8136	26.02	-1.89	118442.920	3.0	183456.690	3.0
153.5777	28.02	-0.74	118745.700	3.0	183859.300	3.0	153.8158	26.01	-3.17	13474.430	2.5	78487.250	1.5
153.5808	26.01	-4.74	27314.930	3.5	92427.220	4.0	153.8245	26.02	-0.85	135316.420	5.0	200325.560	4.0
153.5869	26.01	-7.09	0.000	4.5	65109.710	3.5	153.8306	26.02	-2.74	70728.750	4.0	135735.310	5.0
153.5893	27.02	-2.54	73861.800	1.5	138970.500	1.5	153.8310	26.03	-4.42	128540.400	3.5	193546.800	2.5
153.5901	15.01	-1.01	164.800	1.0	65273.180	2.0	153.8319	28.01	-1.47	57080.550	3.5	122086.580	3.5
153.5935	26.02	-0.98	118350.240	4.0	183457.150	4.0	153.8358	26.02	-2.78	93412.930	2.0	158417.310	2.0
153.5946	26.02	-0.09	118350.240	4.0	183456.690	3.0	153.8374	24.02	-1.77	94799.600	5.0	159803.300	4.0
153.5975	26.02	-3.95	135279.040	2.0	200384.280	3.0	153.8400	24.02	-2.03	94029.200	3.0	159031.800	2.0
153.6049	28.01	-1.07	68965.650	1.5	134067.760	1.5	153.8440	24.02	-1.76	94374.700	4.0	159375.600	3.0
153.6065	18.01	-3.98	138243.550	1.5	203344.980	1.5	153.8469	28.01	-2.98	57080.550	3.5	122086.580	2.5
153.6074	26.02	-4.31	69836.830	3.0	134937.840	2.0	153.8475	29.01	-0.85	71919.930	3.0	136919.350	3.0
153.6096	26.02	-4.03	69837.760	2.0	134937.840	2.0	153.8479	28.01	-1.77	68735.980	2.5	133735.260	2.5
153.6105	26.01	-4.74	7955.240	3.5	73054.970	2.5	153.8481	14.02	-3.46	175263.100	1.0	240262.280	1.0
153.6117	28.01	-0.83	545										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
153.9299	25.02	-3.94	71831.980	2.5	136796.610	2.5
153.9310	26.02	-3.78	73727.640	2.0	138691.810	1.0
153.9332	26.02	-3.52	121919.740	3.0	186882.980	3.0
153.9335	25.01	-1.59	43484.500	2.0	108447.600	2.0
153.9364	28.01	-2.33	71770.830	2.5	136732.740	1.5
153.9391	23.02	-3.04	91710.430	3.5	156671.200	2.5
153.9433	23.02	-3.16	99440.100	2.5	164399.100	3.5
153.9473	26.02	.03	82333.920	3.0	147291.210	2.0
153.9493	18.01	-2.06	154203.970	3.5	219160.400	2.5
153.9508	26.01	-2.22	21812.040	1.5	86767.870	2.5
153.9526	24.01	-8.14	12032.720	1.5	76987.780	2.0
153.9589	25.01	-4.63	44521.520	4.0	109473.900	4.0
153.9693	14.02	-3.52	175336.260	2.0	240284.280	2.0
153.9696	27.02	-4.28	103501.700	3.5	168449.600	3.5
153.9729	28.01	-1.34	56371.410	3.5	121317.890	3.5
153.9748	25.01	-6.89	27570.950	5.0	92516.650	4.0
153.9783	24.02	-5.69	43304.100	2.0	108248.300	1.0
153.9810	25.02	-2.29	114209.010	3.5	179152.090	3.5
153.9828	13.01	-5.55	59849.700	1.0	124792.000	2.0
153.9843	26.02	-2.42	121941.290	4.0	186882.980	3.0
153.9864	25.02	-2.80	114287.910	2.5	179228.690	1.5
153.9946	28.01	-3.22	68965.650	1.5	133903.000	1.5
153.9952	26.01	-2.79	13904.870	.5	78841.970	.5
153.9957	23.01	-2.47	2968.220	4.0	67905.100	3.0
154.0012	28.01	-2.33	53037.930	2.5	117972.470	3.5
154.0041	25.01	-6.61	27583.300	4.0	92516.650	4.0
154.0077	26.02	-4.49	116898.220	2.0	181830.020	3.0
154.0102	23.01	-5.87	0.000	0.0	64930.760	1.0
154.0109	26.02	-1.30	124854.040	3.0	189784.520	2.0
154.0110	26.02	-1.05	116898.220	2.0	181828.660	2.0
154.0115	29.02	-1.87	80422.800	.5	145353.000	1.5
154.0143	23.01	-3.21	2808.760	3.0	67737.800	2.0
154.0144	28.01	-2.19	53365.170	4.5	118294.170	3.5
154.0158	25.01	-7.71	27588.230	3.0	92516.650	4.0
154.0164	26.02	.71	114948.550	3.0	179876.710	4.0
154.0215	14.02	-4.70	175336.260	2.0	240262.280	1.0
154.0236	29.01	-3.35	72724.000	2.0	137649.100	2.0
154.0255	24.01	-4.64	0.000	2.5	64924.300	3.5
154.0267	28.01	-1.43	54176.260	.5	119100.060	1.5
154.0280	28.01	-8.85	56371.410	3.5	121294.670	4.5
154.0291	26.02	-2.09	117521.910	4.0	182444.700	3.0
154.0309	15.01	-4.70	65252.250	1.0	130174.300	2.0
154.0341	26.02	-6.45	135735.310	5.0	200656.020	6.0
154.0350	25.00	-7.23	0.000	2.5	64920.330	3.5
154.0383	25.01	-7.42	14593.820	3.0	79512.730	3.0
154.0389	29.01	-1.21	70841.300	3.0	135759.970	2.0
154.0439	26.02	.38	135739.470	6.0	200656.020	6.0
154.0450	18.01	-2.11	145668.800	1.5	210584.880	1.5
154.0526	27.02	-4.31	73861.800	1.5	138774.700	2.5
154.0582	29.01	.49	71531.500	3.0	136442.050	3.0
154.0592	26.02	-1.60	121468.820	5.0	186378.940	4.0
154.0662	25.02	-1.57	111776.600	1.5	176683.760	2.5
154.0716	16.01	-4.66	14853.000	1.5	79757.900	1.5
154.0730	20.02	-3.01	279353.640	1.0	344257.920	1.0
154.0737	24.03	-3.31	109950.000	2.5	174854.000	3.5
154.0758	28.02	-1.13	79250.800	4.0	144153.900	4.0
154.0766	28.01	-2.41	72735.420	1.5	137278.220	1.5
154.0805	15.01	-3.46	65273.180	2.0	130174.300	2.0
154.0806	26.01	-4.06	21581.640	4.5	86482.750	3.5
154.0834	26.02	.16	118557.250	5.0	183457.150	4.0
154.0839	26.01	-6.01	22637.190	4.5	87536.900	3.5
154.0868	23.02	-5.56	42267.400	2.5	107165.900	1.5
154.0884	28.02	-2.27	75646.900	4.0	140544.700	3.0
154.0908	26.02	-1.10	117521.910	4.0	182418.700	4.0
154.0914	28.01	-1.81	68965.650	1.5	133862.210	1.5
154.0958	23.01	-7.43	36.050	1.0	64930.760	1.0
154.0964	26.02	-1.09	131991.580	7.0	196886.010	6.0
154.1019	26.02	-1.00	124903.920	2.0	189796.030	1.0
154.1020	28.01	-3.34	68965.650	1.5	133857.730	.5
154.1030	26.01	-4.66	31387.980	2.5	96279.650	2.5
154.1044	26.02	-4.49	116937.570	1.0	181828.660	2.0
154.1046	28.01	-3.11	55018.710	2.5	119909.720	1.5
154.1046	25.04	-1.18	177862.000	3.5	242753.000	3.5
154.1052	26.02	-1.15	117521.910	4.0	182412.650	4.0
154.1056	25.01	-1.82	43557.030	1.0	108447.600	2.0
154.1072	26.02	-1.27	131991.580	7.0	196881.470	7.0
154.1116	26.02	-4.13	70694.030	5.0	135582.080	6.0
154.1131	25.02	-1.03	112057.800	3.5	176945.200	4.5
154.1141	26.02	-2.47	117521.910	4.0	182408.910	3.0
154.1198	11.02	-3.13	406562.000	1.5	471446.600	1.5
154.1202	26.02	-1.19	137544.600	2.0	202429.040	1.0
154.1265	25.02	-2.05	113676.530	2.5	178558.300	1.5
154.1274	26.02	-4.01	120179.950	0.0	185061.350	1.0
154.1293	26.02	-4.43	124903.920	2.0	189784.520	2.0
154.1322	24.01	-7.15	19798.010	2.5	84677.390	3.5
154.1354	28.01	-1.86	68735.980	2.5	133613.990	1.5
154.1433	27.02	-4.02	106591.900	1.5	171466.600	2.5
154.1433	27.02	-4.02	106591.900	1.5	171466.600	2.5
154.1433	27.02	-4.02	106591.900	1.5	171466.600	2.5
154.1449	26.02	-1.28	118557.250	5.0	183431.280	5.0
154.1453	26.01	-4.23	31483.200	3.5	96357.070	3.5
154.1461	9.02	-2.87	395268.130	1.5	460141.630	2.5
154.1471	16.01	-4.35	14884.800	2.5	79757.900	1.5
154.1496	26.02	-3.49	121919.740	3.0	186791.780	2.0
154.1510	6.00	-1.87	21648.010	0.0	86519.470	1.0
154.1518	27.02	-2.76	106954.700	2.5	171825.800	1.5
154.1557	28.01	-1.53	56371.410	3.5	121240.900	3.5
154.1594	26.02	-6.4	137561.100	1.0	202429.040	1.0
154.1634	15.01	-2.29	65308.050	3.0	130174.300	2.0
154.1674	25.01	-5.18	14593.820	3.0	79458.380	2.0
154.1683	25.02	-4.45	114287.910	2.5	179152.090	3.5
154.1703	29.01	-4.80	68730.720	4.0	133594.050	3.0
154.1740	17.02	-4.34	151848.600	2.5	216710.400	3.5
154.1753	29.01	.51	85388.770	2.0	150250.000	2.0
154.1773	26.02	-1.59	70694.030	5.0	135554.410	4.0
154.1794	25.02	-2.40	68892.000	3.5	133751.500	3.5
154.1799	28.01	-1.75	75149.480	4.5	140008.760	3.5
154.1823	18.01	-1.51	145668.800	1.5	210527.100	2.5
154.1831	26.02	.68	117521.910	4.0	182379.860	5.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
154.1853	26.01	-4.30	27314.930	3.5	92171.950	4.5
154.1861	28.01	-2.07	75149.480	4.5	140006.170	4.5
154.1861	27.01	-6.18	17771.500	3.0	82628.200	3.0
154.1868	28.01	-1.71	56371.410	3.5	121227.800	2.5
154.1880	27.02	-5.52	103593.700	2.5	168449.600	3.5
154.1881	26.02	-8.87	137573.200	0.0	202429.040	1.0
154.1902	26.02	-2.47	116975.050	2.0	181830.020	3.0
154.1929	26.02	-4.09	84159.550	4.0	149013.360	4.0
154.1931	26.02	-3.00	84671.870	3.0	149525.630	2.0
154.1934	26.02	-3.10	116975.050	2.0	181828.660	2.0
154.1956	27.01	-5.14	3350.500	5.0	68203.200	5.0
154.1966	11.01	-1.83	300107.710	2.0	364960.000	1.0
154.1970	29.02	-1.18	77967.600	2.5	142819.700	3.5
154.2023	28.01	-1.72	57420.160	2.5	122270.050	3.5
154.2075	23.02	-3.38	89417.500	3.5	154265.200	3.5
154.2094	27.02	.25	107530.100	3.5	172377.000	3.5
154.2128	29.01	-2.78	71919.930	3.0	136765.380	4.0
154.2152	26.02	-1.76	93412.930	2.0	158257.370	1.0
154.2158	18.01	-4.78	145668.800	1.5	210512.980	1.5
154.2177	6.00	-2.42	21648.010	0.0	86491.410	1.0
154.2182	29.01	-3.25	71493.680	2.0	136336.880	1.0
154.2184	26.03	.07	128540.400	3.5	193383.500	3.5
154.2193	26.02	-2.61	73849.100	1.0	138691.810	1.0
154.2219	28.01	-3.11	53601.190	1.5	118442.810	1.5
154.2231	26.02	-5.59	124954.880	1.0	189796.030	1.0
154.2236	26.02	-1.13	135554.410	4.0	200395.330	5.0
154.2260	28.03	-4.49	122377.910	1.5	187217.800	.5
154.2263	24.01	-8.78	12148.000	2.5	76987.780	2.5
154.2270	27.02	-3.34	105965.100	2.5	170804.600	1.5
154.2280	15.01	-1.76	469.000	2.0	65308.050	3.0
154.2319	25.02	-3.28	68899.200	4.5	133736.640	5.5
154.2341	28.01	-2.09	72375.420	1.5	137211.930	.5
154.2361	26.01	-3.58	21711.890	3.5	86547.550	2.5
154.2380	28.01	-1.54	53037.930	2.5	117872.780	2.5
154.2381	26.02	-4.69	50276.100	4.0	115110.920	4.0
154.2396	29.01	-1.28	71919.930	3.0	136754.110	2.0
154.2410	26.01	-4.92	22637.190	4.5	87470.800	4.5
154.2429	25.03	-3.44	120603.100	4.0	185435.900	3.0
154.2448	26.01	-5.53	0.000	4.5	64832.000	4.5
154.2499	26.02	-4.44	135554.410	4.0	200384.280	3.0
154.2504	26.02	-9.97	124954.880	1.0	189784.520	2.0
154.2510	26.02	-2.91	70725.010	3.0	135554.410	4.0
154.2529	26.02	.14	134976.220	3.0	199804.810	4.0
154.2534	27.02	-3.05	76518.900	5.5	141347.300	4.5
154.2556	28.01	-3.89	14995.570	2.5	79823.030	3.5
154.2570	29.02	-1.62	62065.000	3.5	126891.900	2.5
154.2572	28.02	-1.89	116192.100	4.0	181018.900	5.0
154.2599	26.02	-1.45	70728.750	4.0	135554.410	4.0
154.2614	26.02	-2.20	124854.040	3.0	189679.070	3.0
154.2619	27.02	.03	103386.700	4.5	168211.500	4.5
154.2635	23.01	-6.09	106.630	2.0	64930.760	1.0
154.2657	25.00	-6.39	0.000	2.5	64823.210	2.5
154.2717	26.03	.39	128966.300	4.5	193787.000	4.5
154.2718	26.02	-2.57	137209.730	4.0	202030.380	3.0
154.2759	28.01	-1.57	56371.410	3.5	121190.340	4.5
154.2769	28.01	-1.19	71770.830	2.5	136589.350	3.5
154.2770	18.02	-2.91	174375.000	2.0	239193.480	1.0
154.2836	26.02	-4.09	50295.200	3.0	115110.920	4.0
154.2855	27.01	-7.22	4028.900	4.0	68843.800	4.0
154.2875	9.02	-4.29	390834.600	2.5	455648.670	1.5
154.2876	26.01	-3.17	13673.210	1.5	78487.250	1.5
154.2894	26.02	-2.06	135582.080	6.0	200395.330	5.0
154.2920	26.02	-4.61	114948.550	3.0	179760.720	3.0
154.2949	26.02	-7.73	114948.550	3.0	179759.490	2.0
154.2985	26.02	-1.18	114948.550	3.0	179757.980	4.0
154.3024	28.02	-1.84	116674.500	4.0	181482.300	4.0
154.3031	23.02	-2.77	89457.670	2.5	154265.200	3.5
154.3044	24.01	-6.05	19798.010	2.5	84604.990	2.5
154.3075	14.00	-3.58	77.115	1.0	64882.800	2.0
154.3110	15.01	-1.63	469.000	2.0	65273.180	2.0
154.3115	25.03	-2.25	131170.100	4.0	195974.100	5.0
154.3131	28.01	-2.80	56424.490	1.5	121227.800	2.5
154.3159	8.02	-2.10	293865.260	1.0	358667.400	1.0
154.3161	26.01	-3.18	27314.930	3.5	92116.980	4.5
154.3163	26.02	-2.57	69747.400	0.0	134549.380	1.0
154.3174	29.02	-1.17	80551.500	2.5	145353.000	1.5
154.3206	25.02	-1.90	111883.600	2.5	176683.760	2.5
154.3215	26.01	-2.14	1872.600	4.5	66672.390	3.5
154.3276	26.01	-5.00	8391.920	2.5	73189.160	1.5
154.3281	15.00	-8.82	11376.400	2.5	76173.400	3.5
154.3301	20.02	-4.11	279353.640	1.0	344149.810	2.0
154.3307	18.01	-4.39	145668.800	1.5	210464.710	2.5
154.3336	23.02	-1.36	42371.200	1.5	107165.900	1.5
154.3374	29.02	-1.33	63886.300	1.5	128679.400	2.5
154.3412	27.02	-2.29	108403.400	1.5	173194.900	2.5
154.3419	28.03	-5.03	111755.520	2.5	176564.720	1.5
154.3431	29.02	.85	89017.700	4.5	153808.400	4.5
154.3444	26.02	-1.25	86847.110	2.0	151637.300	1.0
154.3517	25.02	-1.90	130895.390	4.5	195682.500	5.5
154.3527	25.01	-5.57	14325.860	4.0	79112.560	5.0
154.3547	28.01	-5.10	23796.180	1.5	88582.010	1.5
154.3551	27.02	-2.28	106954.700	2.5	171740.400	1.5
154.3551	27.02	-2.28	106954.700	2.5	171740.400	1.5
154.3551	27.02	-2.89	106954.700	2.5	171740.400	1.5
154.3576	25.02	-4.94	88327.960	3.5	153112.600	3.5
154.3609	15.01	-2.87	469.000	2.0	65252.250	1.0
154.3623	26.02	.76	115110.920	4.0	179893.560	5.0
154.3639	26.04	-4.44	195212.000	2.0	259994.000	1.0
154.3689	27.02	-1.28	106489.200	3.5	171269.100	4.5
154.3722	26.02	-2.56	82382.870	3.0	147161.360	4.0
154.3734	23.03	-1.30	155565.500	1.0	220343.500	1.0
154.3736	28.01	-4.99	53601.190	1.5	118379.110	2.5
154.3802	26.02	-8.89	124903.920	2.0	189679.070	3.0
154.3804	10.01	-2.20	254165.010	1.5	318940.080	1.5
154.3808	27.02	-4.00	106954.700	2.5	171729.600	2.5
154.3818	26.01	-4.00	27314.930	3.5	92089.410	3.5
154.3897	26.02	-1.80	135554.410	4.0	200325.560	4.0
154.3903	26.02	-1.63	118686.250	4.0	183457.150	4.0
154.3904	26.01	-5.61	21711.890	3.5	86482.750	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
154.3914	26.02	-5.55	118686.250	4.0	183456.690	3.0	154.6174	26.02	-9.92	123455.920	0.0	188131.700	1.0
154.3934	28.01	-2.75	68965.550	1.5	133735.260	2.5	154.6231	28.03	0.09	111187.860	3.5	175861.270	3.5
154.3959	6.00	-2.60	21648.010	0.0	86416.550	1.0	154.6257	9.02	-4.45	390976.350	1.5	455648.670	1.5
154.3970	23.01	-5.59	36.050	1.0	64804.130	2.0	154.6274	27.02	-1.88	76518.900	5.5	141190.500	5.5
154.3979	27.02	0.38	103245.000	5.5	168012.700	5.5	154.6324	15.00	-1.75	11376.400	2.5	76045.900	2.5
154.4025	26.02	-0.43	115110.920	4.0	179876.710	4.0	154.6360	10.03	-1.88	579307.000	2.5	643975.000	2.5
154.4058	29.02	-1.59	62065.000	3.5	126329.400	3.5	154.6398	28.01	-2.99	57420.160	2.5	122086.580	3.5
154.4068	26.02	0.36	134937.840	2.0	199701.820	3.0	154.6412	8.02	-2.10	294001.600	2.0	358667.400	1.0
154.4076	26.02	-0.06	50184.900	2.0	114948.550	3.0	154.6434	26.03	-2.20	127928.100	1.5	192593.000	2.5
154.4099	27.02	-2.37	106764.900	4.5	171527.600	3.5	154.6440	26.02	-3.27	66955.730	4.0	134360.400	4.0
154.4103	29.02	-2.37	89045.900	3.5	153808.400	4.5	154.6440	28.01	-3.86	57420.160	2.5	122084.790	1.5
154.4125	27.02	-0.12	105008.700	3.5	169770.300	2.5	154.6447	26.01	-2.77	7955.240	3.5	72619.610	2.5
154.4128	26.02	-1.15	117068.560	3.0	181830.020	3.0	154.6456	5.00	-1.86	0.000	0.5	64664.000	1.5
154.4128	26.01	-0.06	22810.330	3.5	87571.800	2.5	154.6477	26.01	-3.09	13474.430	2.5	78137.530	3.5
154.4135	26.02	-3.66	69788.190	1.0	134549.380	1.0	154.6478	26.01	-5.56	8391.920	2.5	73054.970	2.5
154.4161	26.02	-2.27	117068.560	3.0	181828.660	2.0	154.6490	26.01	-6.44	22939.350	2.5	87601.900	1.5
154.4176	18.01	-1.67	154181.430	4.5	218940.900	4.5	154.6495	26.01	-4.82	27620.390	2.5	92282.760	3.5
154.4176	18.01	0.07	154181.430	4.5	218940.900	5.5	154.6540	26.01	-4.68	22810.330	3.5	87470.800	4.5
154.4222	25.02	-0.31	111883.600	2.5	176641.140	3.5	154.6549	28.01	-1.95	57420.160	2.5	122080.250	2.5
154.4232	26.02	-0.64	117068.560	3.0	181825.670	4.0	154.6551	26.02	-4.47	135735.310	5.0	200395.330	5.0
154.4237	17.02	-2.97	151953.500	3.5	216710.400	3.5	154.6554	18.01	-4.16	139258.250	0.5	203918.150	1.5
154.4259	9.02	-1.74	395385.660	2.5	460.41.630	2.5	154.6560	14.00	-3.98	223.157	2.0	64882.800	2.0
154.4262	26.02	-2.36	73935.960	0.0	138591.810	1.0	154.6650	26.02	-0.88	135739.470	6.0	200395.330	5.0
154.4263	25.01	-3.88	43370.370	3.0	108126.200	3.0	154.6692	27.01	-1.28	950.300	3.0	65604.400	3.0
154.4268	9.02	-3.45	380250.520	2.5	445006.130	2.5	154.6710	26.02	-4.38	50295.200	3.0	114948.550	3.0
154.4276	28.01	-2.61	57420.160	2.5	122175.420	2.5	154.6714	24.01	-5.41	20024.180	3.5	84677.390	3.5
154.4337	27.02	-3.33	77121.100	4.5	141873.800	5.5	154.6743	26.02	-0.25	122346.610	3.0	186998.600	4.0
154.4364	26.01	-0.50	8391.920	2.5	73143.480	3.5	154.6769	25.02	-1.47	114501.180	4.5	179152.090	3.5
154.4406	27.02	0.10	108052.900	2.5	172802.700	2.5	154.6791	9.02	-3.92	380307.130	1.5	444957.110	1.5
154.4418	27.02	-1.73	78927.800	3.5	143677.100	3.5	154.6795	26.02	-0.77	115110.920	4.0	179760.720	3.0
154.4468	15.01	-3.78	65273.180	2.0	130020.400	3.0	154.6810	25.00	-6.96	0.000	2.5	64649.200	3.5
154.4473	26.04	-2.45	195212.000	2.0	259959.000	3.0	154.6818	5.00	-1.60	15.150	1.5	64664.000	2.5
154.4474	27.01	-6.15	4950.000	2.0	69696.970	3.0	154.6818	5.00	-2.56	15.150	1.5	64664.000	1.5
154.4514	28.01	-2.18	55799.650	4.5	120044.950	4.5	154.6830	28.01	-3.05	68965.650	1.5	133613.990	1.5
154.4520	26.02	-0.08	118686.250	4.0	183431.280	5.0	154.6841	10.01	-3.31	254292.190	0.5	318940.080	1.5
154.4590	26.02	-2.28	79844.740	6.0	144586.830	5.0	154.6846	26.02	-2.49	121949.620	5.0	186597.300	6.0
154.4678	26.01	-2.89	27620.390	2.5	92358.800	1.5	154.6861	26.02	-0.18	115110.920	4.0	179757.980	4.0
154.4713	18.01	-0.02	154203.970	3.5	218940.900	4.5	154.6872	28.01	-4.49	55018.710	2.5	119665.290	2.5
154.4747	26.01	-4.57	21812.040	1.5	86547.550	2.5	154.6918	26.02	0.70	135239.740	4.0	199884.390	5.0
154.4757	26.02	-3.71	118721.600	2.0	183456.690	3.0	154.6922	27.02	-3.41	107297.000	1.5	171941.500	0.5
154.4804	26.02	-1.06	137423.000	3.0	202156.130	2.0	154.6989	25.01	-4.24	43484.500	2.0	108126.200	3.0
154.4822	26.02	-3.65	135705.570	3.0	200437.940	2.0	154.7017	25.02	-2.98	72183.330	3.5	136823.860	3.5
154.4829	26.01	-2.47	21812.040	1.5	86544.140	1.5	154.7039	28.02	-1.97	81686.900	6.0	146326.500	5.0
154.4842	25.01	-4.18	14781.190	2.0	79512.730	3.0	154.7063	26.02	-1.80	132262.660	6.0	196901.270	5.0
154.4854	24.01	-7.52	12148.000	2.5	76879.030	3.5	154.7095	25.02	-4.06	112057.800	3.5	176695.060	4.5
154.4876	27.02	-0.21	108403.400	1.5	173133.500	1.5	154.7096	26.02	-0.46	115110.920	4.0	197448.170	5.0
154.4905	23.02	-2.48	88559.080	1.5	153288.000	1.5	154.7173	28.03	-1.40	121799.830	2.5	186433.850	1.5
154.4918	26.02	-1.24	114948.550	3.0	179676.890	2.0	154.7182	28.01	-3.50	51557.850	3.5	116191.470	2.5
154.4928	26.02	-0.93	57221.700	4.0	121949.620	5.0	154.7210	26.01	-5.68	22939.350	2.5	87571.800	2.5
154.4961	26.01	-5.16	22810.330	3.5	87536.900	3.5	154.7338	28.01	-3.86	57420.160	2.5	122047.290	3.5
154.4964	26.02	-3.35	79860.420	5.0	144586.830	5.0	154.7338	28.01	-1.04	55417.830	3.5	120044.950	4.5
154.4966	28.01	-1.23	55417.830	3.5	120144.170	2.5	154.7365	27.02	-0.58	103386.700	4.5	168012.700	5.5
154.4975	28.01	-1.02	53037.930	2.5	117763.910	1.5	154.7366	25.02	-2.64	112057.800	3.5	176683.760	2.5
154.4984	26.02	-0.46	134976.220	3.0	199701.820	3.0	154.7403	26.01	-4.32	8391.920	2.5	73016.330	3.5
154.5000	26.01	-0.30	384.770	3.5	65109.710	3.5	154.7408	28.01	-0.33	53037.930	2.5	117662.110	1.5
154.5002	28.01	-3.47	57420.160	2.5	122144.990	2.5	154.7412	25.02	-1.00	112645.310	0.5	177269.340	1.5
154.5009	22.01	0.17	4897.600	3.5	69622.150	2.5	154.7428	26.02	-0.65	132262.660	6.0	196886.010	6.0
154.5070	25.02	-0.92	114094.970	1.5	178816.960	2.5	154.7451	26.02	-1.55	70694.030	5.0	135316.420	5.0
154.5072	28.02	-2.64	79143.300	2.0	143865.200	3.0	154.7509	26.02	-2.62	135705.570	3.0	200325.560	4.0
154.5170	17.03	-1.85	187008.000	1.0	251725.800	1.0	154.7537	26.02	0.17	132262.660	6.0	196881.470	7.0
154.5199	26.01	-2.47	1872.600	4.5	66589.170	4.5	154.7544	28.01	-3.08	71457.740	3.5	136076.260	4.5
154.5237	28.02	-2.76	71383.700	2.0	136098.700	1.0	154.7552	28.01	-0.24	52205.950	3.5	116824.150	2.5
154.5249	6.00	-2.76	21648.010	0.0	86362.520	1.0	154.7637	26.02	0.84	115289.910	5.0	179904.560	6.0
154.5286	25.00	-5.02	0.000	2.5	64712.940	2.5	154.7643	28.02	-0.43	79250.800	4.0	143865.200	3.0
154.5286	26.02	-0.03	114948.550	3.0	179661.480	3.0	154.7651	25.02	-0.72	111776.600	1.5	176390.670	2.5
154.5300	15.01	-2.72	65308.050	3.0	130020.400	3.0	154.7660	28.01	-2.17	55299.650	4.5	119913.330	4.5
154.5300	20.02	-0.12	212310.040	4.0	277022.400	3.0	154.7669	25.02	-3.43	72183.330	3.5	136796.610	2.5
154.5318	26.02	-3.16	69837.760	2.0	134549.380	1.0	154.7711	26.02	-0.57	137544.600	2.0	202156.130	2.0
154.5361	26.02	-0.41	137209.730	4.0	201919.530	4.0	154.7718	23.02	-2.14	88327.960	3.5	152939.200	2.5
154.5361	27.02	-0.49	103501.700	3.5	168211.500	4.5	154.7797	25.02	-2.24	114209.010	3.5	178816.960	2.5
154.5363	26.01	-3.61	27620.390	2.5	92330.100	2.5	154.7811	26.02	-0.42	137423.000	3.0	202030.380	3.0
154.5375	27.01	-0.90	0.000	4.0	64709.200	5.0	154.7868	26.02	-0.55	135096.840	3.0	199701.820	3.0
154.5398	28.03	-0.04	121799.830	2.5	186508.070	2.5	154.7894	26.01	-7.26	23031.300	1.5	87635.200	0.5
154.5405	26.02	-0.12	135096.840	3.0	199804.810	4.0	154.7900	26.02	-0.24	115289.910	5.0	179893.560	5.0
154.5406	28.01	-1.35	68735.980	2.5	133443.890	2.5	154.7961	9.02	-4.69	391047.540	0.5	455648.670	1.5
154.5437	23.02	-1.97	88559.080	1.5	153265.700	1.5	154.7988	10.03	-4.48	579375.000	2.5	643975.000	2.5
154.5438	9.02	-0.43	380250.520	2.5	444957.110	1.5	154.8031	28.03	-0.26	112144.090	1.5	176742.300	0.5
154.5460	23.01	-0.											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
154.8387	25.02	-6.65	112057.800	3.5	176641.140	3.5	155.0878	23.01	-7.97	106.630	2.0	64586.230	2.0
154.8410	26.01	-2.68	13904.870	.5	78487.250	1.5	155.0911	28.01	-1.94	68955.650	1.5	133443.890	2.5
154.8415	24.01	-9.30	12496.790	4.5	77078.960	5.5	155.0928	23.01	-4.01	11908.270	2.0	76365.800	3.0
154.8439	25.02	-4.36	111883.600	2.5	176464.780	3.5	155.0935	26.02	-2.84	69788.190	1.0	134265.420	2.0
154.8448	24.01	-6.40	20024.180	3.5	84604.990	2.5	155.0941	26.04	-1.19	195942.000	3.0	260419.000	2.0
154.8460	15.00	-1.17	11376.400	2.5	75956.700	3.5	155.0959	22.02	-3.92	10721.200	2.0	75197.430	2.0
154.8497	26.02	-8.86	123552.950	1.0	188131.700	1.0	155.0971	26.02	-6.67	118355.010	6.0	182830.760	6.0
154.8499	23.01	-8.82	14461.730	3.0	79040.400	3.0	155.1002	26.02	-4.14	83161.480	4.0	147635.950	3.0
154.8540	26.01	-3.24	21812.040	1.5	86388.980	.5	155.1034	25.01	-9.55	0.000	3.0	64473.130	3.0
154.8556	27.02	-1.98	91715.100	2.5	156291.400	2.5	155.1046	15.00	-7.77	11360.800	1.5	75833.400	2.5
154.8586	24.01	-9.46	12303.980	3.5	76879.030	3.5	155.1064	18.01	-3.23	139258.250	.5	203730.860	1.5
154.8609	25.01	-3.69	44899.820	3.0	109473.900	4.0	155.1066	26.02	-2.23	79860.420	5.0	144332.210	4.0
154.8614	18.01	-2.18	147503.020	1.5	212076.900	2.5	155.1066	25.01	-6.47	27589.030	2.0	92060.800	1.0
154.8637	27.02	-1.37	106954.700	2.5	171527.600	3.5	155.1078	15.04	-1.08	391101.700	.5	455573.000	.5
154.8649	27.01	-6.60	17771.500	3.0	82343.900	4.0	155.1089	26.02	.71	136185.170	5.0	200656.020	6.0
154.8675	28.03	-6.36	122377.910	1.5	186949.220	1.5	155.1124	26.02	-1.76	93512.640	4.0	157982.000	3.0
154.8692	26.01	-6.56	23031.300	1.5	87601.900	1.5	155.1133	26.01	-3.09	27620.390	2.5	92089.410	3.5
154.8692	11.02	-2.49	406876.000	.5	471446.600	1.5	155.1135	26.02	-4.68	115110.920	4.0	179579.830	5.0
154.8694	26.01	-2.53	2430.080	3.5	67000.630	2.5	155.1155	26.02	-5.59	115289.910	5.0	179757.980	4.0
154.8707	29.02	-2.97	80305.200	1.5	144675.200	1.5	155.1162	26.01	-7.77	31811.870	2.5	96279.650	2.5
154.8715	14.00	-6.19	77.115	1.0	64646.780	2.0	155.1204	25.02	-2.18	71395.270	.5	135861.320	1.5
154.8729	26.02	-2.53	93412.930	2.0	157982.000	3.0	155.1205	24.03	-8.87	110700.000	3.5	175166.000	3.5
154.8745	11.01	-2.42	300391.590	0.0	364960.000	1.0	155.1230	28.01	-3.83	70635.460	2.5	135100.450	3.5
154.8756	26.02	-7.04	135316.420	5.0	199884.390	5.0	155.1268	17.03	-1.22	187008.000	1.0	251471.400	0.0
154.8779	25.02	-1.40	113991.310	.5	178558.300	1.5	155.1270	25.02	-1.27	114094.970	1.5	178558.300	1.5
154.8825	26.02	.00	135239.740	4.0	199804.810	4.0	155.1297	27.02	-2.33	77411.600	5.5	141873.800	5.5
154.8868	29.02	.47	89045.900	3.5	153609.200	3.5	155.1300	26.02	-1.63	135239.740	4.0	199701.820	3.0
154.8882	24.02	-2.63	93765.600	2.0	158328.300	2.0	155.1334	28.01	-3.59	66571.340	2.5	131032.010	2.5
154.8937	20.02	-2.43	272188.700	1.0	336749.110	1.0	155.1340	26.02	.69	118350.240	4.0	182810.660	5.0
154.8974	25.02	-6.93	131123.640	5.5	195682.500	5.5	155.1365	26.02	-3.39	82846.590	4.0	147305.970	3.0
154.9014	25.01	-6.47	14901.180	1.0	79458.380	2.0	155.1381	29.02	-1.01	77967.600	2.5	142426.300	2.5
154.9025	28.01	-2.80	71770.830	2.5	136327.550	1.5	155.1388	27.01	-2.28	950.300	3.0	65408.710	2.0
154.9032	25.02	-3.62	68899.200	4.5	133455.640	5.5	155.1392	26.02	-4.07	115289.910	5.0	179748.170	5.0
154.9034	26.02	-7.77	123552.950	1.0	188109.320	0.0	155.1400	23.02	-4.63	99941.200	3.5	164399.100	3.5
154.9090	26.02	-3.39	70725.010	3.0	135279.040	2.0	155.1417	27.02	-2.33	77411.600	5.5	141868.800	6.5
154.9143	17.03	-7.79	187174.000	2.0	251725.800	1.0	155.1422	23.02	-2.63	99941.200	3.5	164398.200	4.5
154.9173	26.02	-1.23	115110.920	4.0	179661.480	3.0	155.1422	15.00	-2.34	11376.400	2.5	75833.400	2.5
154.9182	23.01	-6.03	36.050	1.0	64586.230	2.0	155.1454	26.02	-2.84	118355.010	6.0	182810.660	5.0
154.9211	29.02	-1.08	63886.300	1.5	128435.300	1.5	155.1523	15.00	-2.80	11360.800	1.5	75813.600	.5
154.9283	25.04	-4.37	183528.000	2.5	248074.000	2.5	155.1533	29.02	-2.39	80422.800	.5	144875.200	1.5
154.9290	26.02	-2.68	70694.030	5.0	135239.740	4.0	155.1535	28.01	-4.65	66579.710	1.5	131032.010	2.5
154.9298	26.02	-3.81	84369.920	2.0	148915.300	1.0	155.1535	27.02	-6.68	82363.300	4.5	146815.600	3.5
154.9302	26.01	-2.29	31811.870	2.5	96357.070	3.5	155.1553	25.01	-6.32	27588.230	3.0	92039.800	2.0
154.9314	29.02	-1.71	77967.600	2.5	142512.300	1.5	155.1572	25.01	-6.69	27589.030	2.0	92039.800	2.0
154.9384	16.01	-4.74	14859.000	1.5	79394.800	2.5	155.1608	18.02	-3.76	204563.530	1.0	269012.800	2.0
154.9415	26.01	-6.45	23031.300	1.5	87571.800	2.5	155.1613	11.01	-2.05	300510.920	1.0	364960.000	1.0
154.9430	25.02	-7.70	112645.310	.5	177185.180	.5	155.1618	24.01	-5.22	0.000	2.5	64448.840	2.5
154.9436	14.00	-5.91	77.115	1.0	64616.740	2.0	155.1657	26.01	-5.27	384.770	3.5	64832.000	4.5
154.9501	28.02	-2.94	75646.900	4.0	140183.800	4.0	155.1700	26.02	-5.53	123697.180	2.0	188142.640	2.0
154.9513	9.02	-1.95	395268.130	1.5	459804.550	1.5	155.1707	26.02	-1.54	122346.610	3.0	186791.780	2.0
154.9514	26.02	-8.55	122346.610	3.0	186882.980	3.0	155.1749	27.02	-2.50	107297.000	1.5	171740.400	1.5
154.9586	28.01	-1.30	55299.650	4.5	119833.000	5.5	155.1749	27.02	-2.50	107297.000	1.5	171740.400	1.5
154.9650	27.02	-2.76	108052.900	2.5	172583.600	3.5	155.1749	27.02	-1.65	107297.000	1.5	171740.400	1.5
154.9650	27.02	-2.76	108052.900	2.5	172583.600	3.5	155.1777	26.02	-1.70	76956.790	3.0	141399.040	2.0
154.9650	27.02	-2.73	108052.900	2.5	172583.600	3.5	155.1781	26.01	-6.27	667.640	2.5	65109.710	3.5
154.9690	25.02	-1.16	114287.910	2.5	178816.960	2.5	155.1860	14.00	-5.40	223.157	2.0	64661.980	3.0
154.9696	27.02	-1.88	107297.000	1.5	171825.800	1.5	155.1871	25.01	-4.08	9472.970	2.0	73911.310	1.0
154.9730	9.02	-4.29	376879.070	3.5	441406.460	3.5	155.1888	26.02	-1.82	121941.290	4.0	186378.940	4.0
154.9753	27.02	-3.02	73286.000	4.5	137812.400	3.5	155.1891	18.01	-4.41	142186.270	4.5	206623.800	3.5
154.9813	28.01	-2.04	72375.420	1.5	136899.330	1.5	155.1929	26.01	-2.28	2837.940	2.5	67273.860	1.5
154.9821	26.02	-3.29	69836.830	3.0	134360.400	4.0	155.1942	26.02	-5.51	115289.910	5.0	179725.310	6.0
154.9911	26.02	-1.51	115110.920	4.0	179630.770	4.0	155.1963	26.02	-6.69	123697.180	2.0	188131.700	1.0
154.9912	25.02	-6.93	130895.390	4.5	195415.200	4.5	155.1966	24.02	-2.72	94029.200	3.0	158463.600	3.0
154.9931	27.02	.32	105008.700	3.5	169527.700	4.5	155.1978	27.02	-4.70	107507.600	.5	171941.500	.5
154.9961	28.01	-2.24	71770.830	2.5	136288.600	2.5	155.1978	27.02	-4.70	107507.600	.5	171941.500	.5
155.0034	26.02	-3.44	70725.010	3.0	135239.740	4.0	155.1978	27.02	-2.39	107507.600	.5	171941.500	.5
155.0061	26.02	-1.29	121941.290	4.0	186454.890	5.0	155.2009	27.02	-1.36	107297.000	1.5	171729.600	2.5
155.0089	29.01	-1.97	73101.870	1.0	137614.300	0.0	155.2011	25.02	-6.62	111776.600	1.5	176209.150	1.5
155.0102	27.02	-2.45	106954.700	2.5	171466.600	2.5	155.2040	20.02	-3.16	279353.640	1.0	343784.960	1.0
155.0102	27.02	-2.45	106954.700	2.5	171466.600	2.5	155.2057	28.01	-3.11	71770.830	2.5	136201.460	3.5
155.0102	27.02	-1.29	106954.700	2.5	171466.600	2.5	155.2065	26.02	-1.17	115474.250	6.0	179904.560	6.0
155.0109	25.03	-3.08	131462.500	5.0	195974.100	5.0	155.2065	26.02	.94	115474.250	6.0	179904.560	6.0
155.0123	26.02	-2.66	70728.750	4.0	135239.740	4.0	155.2077	28.01	-4.91	23108.280	2.5	87538.090	3.5
155.0133	28.02	-2.77	75123.800	5.0	139634.400	6.0	155.2088	26.02	-2.19	121949.620	5.0	186378.940	4.0
155.0147	16.01	-4.01	14884.800	2.5	79394.800	2.5	155.2091	26.02	-1.78	136008.740	3.0	200437.940	2.0
155.0154	26.02	-7.77	76956.790	3.0	141466.530	3.0	155.2106	26.02	-3.26	69836.830	3.0	134265.420	2.0
155.0179	26.01	-3.65	8680.470	1.5	73189.160	1.5	155.2209	14.00	-6.33	223.157	2.0	64647.480	3.0
155.0186	28.03	-6.51	122709.410	.5	187217.800								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
155.2923	25.02	-1.42	113991.310	.5	178386.000	.5	155.4909	28.01	-4.24	51557.850	3.5	115870.280	2.5
155.2924	23.01	-7.42	208.890	3.0	64603.530	3.0	155.4913	25.01	-6.52	9472.970	2.0	73785.250	2.0
155.2936	26.02	-1.18	77075.300	1.0	141469.450	1.0	155.4917	23.01	-4.60	11908.270	2.0	76220.400	2.0
155.2947	30.02	-.57	80850.200	1.0	145243.900	2.0	155.4928	25.01	-5.21	29919.220	2.0	94230.900	2.0
155.2948	26.02	-1.87	135990.620	4.0	200384.280	3.0	155.5014	26.02	-3.87	117521.910	4.0	181830.020	3.0
155.2950	14.00	-6.36	223.157	2.0	64616.740	2.0	155.5020	25.01	-5.25	9472.970	2.0	73780.810	3.0
155.2966	15.01	-2.82	65273.180	2.0	129666.100	2.0	155.5041	28.02	-2.24	118745.700	3.0	183052.700	4.0
155.2982	26.02	-.83	123750.390	3.0	188142.640	2.0	155.5043	28.02	-3.66	76237.800	3.0	140544.700	3.0
155.2993	13.03	-.32	618477.500	1.0	682869.300	1.0	155.5059	11.01	-1.77	29919.220	2.0	363500.000	1.0
155.2997	26.02	-2.02	137527.920	4.0	201919.530	4.0	155.5062	28.01	-.64	52205.950	3.5	116512.060	3.5
155.3006	9.02	-4.65	391257.420	2.5	455648.670	1.5	155.5071	18.01	-3.65	132327.280	3.5	196633.020	2.5
155.3010	28.01	-2.42	72375.420	1.5	136766.490	2.5	155.5119	26.02	-2.36	117521.910	4.0	181825.670	4.0
155.3027	27.02	-1.09	105965.100	2.5	170355.500	2.5	155.5128	29.01	-.73	71531.500	3.0	135834.900	4.0
155.3027	23.03	-2.64	151567.300	2.0	215957.700	3.0	155.5154	26.02	-2.30	135582.080	6.0	199884.390	5.0
155.3109	30.02	-1.87	78096.300	3.0	142483.300	2.0	155.5183	24.02	-2.32	93765.600	2.0	158066.700	3.0
155.3171	25.02	-3.93	68892.000	3.5	133276.400	4.5	155.5191	18.01	-2.84	138243.550	1.5	202544.320	2.5
155.3176	20.01	-.59	13650.190	1.5	78034.390	2.5	155.5222	15.00	-2.58	11376.400	2.5	75675.900	1.5
155.3188	26.03	-.57	137698.900	.5	202082.600	1.5	155.5232	24.02	-4.06	94029.200	3.0	158328.300	2.0
155.3188	26.02	-2.77	121919.740	3.0	186303.440	3.0	155.5277	15.01	-4.97	65273.180	2.0	129570.400	1.0
155.3223	24.01	-8.24	12496.790	4.5	76879.030	3.5	155.5280	25.02	-2.62	71564.210	1.5	135861.320	1.5
155.3225	25.02	-2.53	111883.600	2.5	176265.780	1.5	155.5283	10.03	-4.05	579375.000	2.5	643672.000	1.5
155.3243	26.02	-3.52	105929.160	3.0	170310.600	3.0	155.5288	25.02	-.76	110036.140	.5	174332.910	1.5
155.3275	23.02	-.86	88559.080	1.5	152939.200	2.5	155.5289	28.01	-1.95	55018.710	2.5	119315.440	2.5
155.3328	26.03	-.44	137947.500	1.5	202325.400	2.5	155.5292	26.02	-.94	77102.430	2.0	141399.040	2.0
155.3340	9.02	-4.38	348817.600	1.5	413195.000	2.5	155.5297	20.01	-1.90	25191.510	.5	89487.930	1.5
155.3342	23.01	-6.11	208.890	3.0	64586.230	2.0	155.5337	25.02	-1.70	71564.210	1.5	135858.960	2.5
155.3345	25.02	-3.01	68899.200	4.5	133276.400	4.5	155.5341	18.01	-2.23	132327.280	3.5	196621.880	3.5
155.3355	26.02	-2.34	83237.860	3.0	147614.650	2.0	155.5382	25.01	-7.14	29889.310	3.0	94182.200	3.0
155.3385	26.02	-.74	136008.740	3.0	200384.280	3.0	155.5386	26.01	-2.55	72637.190	4.5	86929.920	3.5
155.3388	27.02	-3.22	73286.000	4.5	137661.400	4.5	155.5390	28.01	-1.44	72985.650	1.5	137278.220	1.5
155.3410	26.01	-5.39	8680.470	1.5	73054.970	2.5	155.5407	26.02	-2.75	93392.450	3.0	157684.300	2.0
155.3428	28.03	-.49	111187.860	3.5	175561.600	4.5	155.5414	25.02	-.33	131123.640	5.5	195415.200	4.5
155.3428	15.01	-2.86	65252.250	1.0	129626.000	1.0	155.5427	25.02	-1.96	114094.970	1.5	178386.000	.5
155.3475	26.02	-2.25	70725.010	3.0	135096.840	3.0	155.5454	26.02	-1.38	115289.910	5.0	179579.830	5.0
155.3494	28.01	-4.03	66571.340	2.5	130942.360	1.5	155.5493	28.01	-2.78	71457.740	3.5	135746.060	3.5
155.3498	28.03	-.90	112371.430	.5	176742.300	.5	155.5505	10.01	-2.80	254165.010	1.5	318452.820	1.5
155.3565	26.02	-2.87	70728.750	4.0	135096.840	3.0	155.5516	14.00	-3.04	77115.100	1.0	64364.480	2.0
155.3591	26.02	-1.66	77102.430	2.0	141469.450	1.0	155.5526	20.02	-.55	214334.060	2.0	278621.010	1.0
155.3639	10.03	-2.45	579307.000	2.5	643672.000	1.5	155.5530	26.02	-1.78	117521.910	4.0	181808.700	5.0
155.3651	26.02	-2.19	137527.920	4.0	201892.440	5.0	155.5538	26.01	-5.26	0.000	4.5	64286.440	3.5
155.3658	26.02	-3.80	120697.100	1.0	185061.350	1.0	155.5585	28.01	-.65	75721.680	5.5	140006.170	4.5
155.3661	26.02	-3.81	77102.430	2.0	141466.530	3.0	155.5597	28.02	-1.62	71067.000	3.0	135351.000	2.0
155.3674	18.02	-3.40	204649.240	2.0	269012.800	2.0	155.5605	28.01	-4.04	71770.830	2.5	136054.500	1.5
155.3696	28.01	-2.30	66579.710	1.5	130942.360	1.5	155.5611	18.02	-3.99	144882.930	1.0	209166.350	0.0
155.3698	28.01	-3.86	66579.710	1.5	130942.360	1.5	155.5612	26.01	-4.45	7955.240	3.5	72238.630	2.5
155.3708	26.02	-2.03	121941.290	4.0	186303.440	3.0	155.5621	27.01	-4.46	4560.800	3.0	68843.800	4.0
155.3717	25.01	-3.57	29869.110	2.0	94230.900	2.0	155.5637	23.02	-3.73	89005.640	.5	153288.000	1.5
155.3771	27.01	-1.29	0.000	4.0	64359.560	3.0	155.5666	26.02	-1.41	118163.560	2.0	182444.700	3.0
155.3780	26.02	-.46	123750.390	3.0	188109.580	3.0	155.5681	26.01	-2.23	31999.120	3.5	96279.650	2.5
155.3807	15.01	-4.08	65308.050	3.0	129666.100	2.0	155.5699	29.01	-.33	69704.800	4.0	133984.600	3.0
155.3810	26.01	-.52	31999.120	3.5	96357.070	3.5	155.5699	25.01	-5.03	29951.120	1.0	94230.900	2.0
155.3825	28.01	-1.47	72375.420	1.5	136732.740	1.5	155.5721	28.01	-1.72	57420.160	2.5	121699.020	1.5
155.3842	28.01	-2.68	55299.650	4.5	119656.250	3.5	155.5742	24.03	-1.00	110700.000	3.5	174978.000	2.5
155.3896	28.01	-2.03	58493.210	2.5	122847.600	3.5	155.5765	26.02	-4.68	83358.880	2.0	147635.950	3.0
155.3915	29.01	-.61	72724.000	2.0	137077.600	3.0	155.5821	14.00	-3.65	77115.100	1.0	64351.860	1.0
155.3933	15.01	-2.32	65273.180	2.0	129626.000	1.0	155.5841	26.02	-.37	115474.250	6.0	179748.170	5.0
155.3957	14.00	-3.52	0.000	0.0	64351.860	1.0	155.5851	26.02	-.90	118557.250	5.0	182830.760	6.0
155.3964	18.02	-.44	204649.240	2.0	269000.800	3.0	155.5883	27.02	-2.83	73540.200	3.5	137812.400	3.5
155.4024	26.02	-1.71	121919.740	3.0	186268.790	2.0	155.5897	28.01	-3.03	53601.190	1.5	117872.780	2.5
155.4026	10.03	-2.76	579626.000	1.5	643975.000	2.5	155.5903	26.02	-1.51	93412.930	2.0	157684.300	2.0
155.4123	28.01	-.03	67880.160	2.5	132225.150	1.5	155.5926	25.02	-1.80	114287.910	2.5	178558.300	1.5
155.4137	28.02	-3.93	116674.500	4.0	181018.900	5.0	155.5945	14.00	-2.00	15394.370	0.0	79664.000	1.0
155.4139	18.01	-2.12	147227.970	.5	211572.270	1.5	155.5954	28.01	-2.07	51557.850	3.5	115827.120	3.5
155.4156	23.02	-1.97	88944.380	2.5	153288.000	1.5	155.5963	18.02	-3.66	144882.930	1.0	209151.820	2.0
155.4170	28.01	-3.73	70635.460	2.5	134978.470	2.5	155.5975	26.03	-.55	138336.300	2.5	202604.700	3.5
155.4185	26.01	-4.06	8846.760	.5	73189.160	1.5	155.5976	26.01	-4.38	13474.430	2.5	77742.780	2.5
155.4205	25.01	-4.47	29889.310	3.0	94230.900	2.0	155.5986	26.02	-3.54	83138.230	5.0	147406.140	5.0
155.4222	26.02	-.77	115289.910	5.0	179630.770	4.0	155.6025	26.02	-.27	136117.940	2.0	200384.280	3.0
155.4226	26.01	-4.19	8846.760	.5	73187.460	.5	155.6026	29.01	-2.37	71493.680	2.0	135759.970	2.0
155.4267	25.02	-4.56	85173.880	1.5	149512.900	1.5	155.6036	18.02	-3.44	144885.970	2.0	209151.820	2.0
155.4295	56.01	-1.74	4873.850	0.0	69211.701	0.0	155.6073	23.01	-5.44	339.210	4.0	64603.530	3.0
155.4316	26.04	-.09	196845.000	4.0	261182.000	3.0	155.6076	26.02	-.94	135739.470	6.0	200003.700	7.0
155.4326	26.02	-1.06	132564.710	5.0	196901.270	5.0	155.6081	27.02	-1.55	106764.900	4.5	171028.900	5.5
155.4334	28.01	-1.32	52738.450	2.5	117074.700	3.5	155.6084	25.02	-.62	110172.690	1.5	174436.590	2.5
155.4365	26.02	-1.09	135990.620	4.0	200325.560	4.0	155.6084	28.02	-2.20	55406.100	3.0	119670.000	2.0
155.4415	25.02	-1.46	112057.800	3.5	176390.670	2.5	155.6105	26.02	-.80	123750.390	3.0	188013.400	4.0
155.4427	28.01	-5.11	23796.180	1.5	88128.560	2.5	155.6106	25.01	-8.31	29919.220	2.0	94182.200	3.0
155.4470	15.04	-.78	391242.400	1.5	455573.000	.5							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
155.6716	26.02	-1.62	136200.130	3.0	200437.940	2.0
155.6727	28.01	-1.55	57080.550	3.5	121317.890	3.5
155.6772	26.02	.05	125443.580	4.0	189679.070	3.0
155.6779	26.02	-3.54	120826.170	2.0	185061.350	1.0
155.6803	26.02	-.84	118246.520	3.0	182480.720	2.0
155.6818	8.03	.02	510574.100	2.5	574807.700	3.5
155.6818	8.03	-1.28	510574.100	2.5	574807.700	2.5
155.6837	27.02	-3.13	107507.600	.5	171740.400	1.5
155.6837	27.02	-3.13	107507.600	.5	171740.400	1.5
155.6837	27.02	-2.79	107507.600	.5	171740.400	1.5
155.6873	28.02	-1.86	117251.000	3.0	181482.300	4.0
155.6903	26.02	.06	114948.550	3.0	179178.620	3.0
155.6929	26.02	-.95	118163.560	2.0	182392.550	2.0
155.6961	26.01	-4.10	8391.920	2.5	72619.610	2.5
155.6995	28.01	-2.08	72985.650	1.5	137211.930	.5
155.6997	27.02	-2.32	77121.100	4.5	141347.300	4.5
155.7060	18.01	-4.48	138243.550	1.5	202467.140	1.5
155.7164	26.01	-9.51	23317.600	2.5	87536.900	3.5
155.7186	26.03	-.52	137698.900	.5	201917.300	.5
155.7239	13.03	-.27	616646.700	2.0	680862.900	1.0
155.7258	18.02	-4.50	204797.370	3.0	269012.800	2.0
155.7263	28.01	-4.87	71770.830	2.5	135986.060	3.5
155.7290	28.01	-.92	57080.550	3.5	121294.670	4.5
155.7321	26.02	-1.97	70725.010	3.0	134937.840	2.0
155.7324	27.02	-.02	106591.900	1.5	170804.600	1.5
155.7354	25.02	-.75	110036.140	.5	174247.630	.5
155.7359	18.01	-4.56	146709.910	.5	208921.200	1.5
155.7386	26.02	-1.13	136185.170	5.0	200395.330	5.0
155.7414	26.04	-.90	196845.000	4.0	261054.000	5.0
155.7467	27.02	-3.55	72083.300	4.5	136290.100	3.5
155.7482	10.01	-2.21	249445.990	2.5	313652.170	1.5
155.7545	27.01	-1.05	950.300	3.0	65153.900	4.0
155.7581	29.01	-2.34	71531.500	3.0	135733.600	3.0
155.7581	26.02	.09	136235.840	1.0	200437.940	2.0
155.7607	18.01	-2.61	147875.860	2.5	212076.900	2.5
155.7616	23.01	-3.03	11514.760	1.0	75715.450	1.0
155.7624	28.01	-4.32	70778.120	3.5	134978.470	2.5
155.7645	27.02	-2.53	107530.100	3.5	171729.600	2.5
155.7677	26.02	-2.04	118246.520	3.0	182444.700	3.0
155.7691	26.02	-1.92	83358.880	2.0	147556.450	1.0
155.7731	18.01	-1.30	147875.860	2.5	212071.800	3.5
155.7764	25.02	-3.26	68892.000	3.5	133086.570	4.5
155.7780	28.01	-4.10	66571.340	2.5	130765.260	3.5
155.7802	25.04	-1.58	178560.000	4.5	242753.000	3.5
155.7824	26.02	-7.10	25142.400	3.0	89334.510	2.0
155.7851	25.02	-.42	113078.340	1.5	177269.340	1.5
155.7892	28.02	-.33	119670.000	2.0	183859.300	3.0
155.7930	9.02	-4.21	349007.250	2.5	431195.000	2.5
155.7939	25.02	-4.10	68899.200	4.5	133086.570	4.5
155.7990	28.01	-5.46	10115.660	2.5	74300.930	1.5
155.8017	26.02	-.94	136200.130	3.0	200384.280	3.0
155.8086	28.01	-.95	51557.850	3.5	115739.150	4.5
155.8086	23.03	-1.64	153918.700	3.0	218100.000	4.0
155.8135	10.01	-2.45	249839.630	.5	314018.940	.5
155.8182	25.02	-.62	110398.500	2.5	174575.870	3.5
155.8186	26.02	-3.43	120826.170	2.0	185003.350	2.0
155.8192	18.01	-4.04	138243.550	1.5	202420.490	.5
155.8232	28.03	-.41	112371.430	.5	176546.720	1.5
155.8234	26.01	-5.78	7955.240	3.5	72130.440	4.5
155.8240	14.00	-3.97	77.115	1.0	64252.080	2.0
155.8240	14.00	-6.36	223.157	2.0	64398.120	2.0
155.8256	27.01	-4.26	4028.900	4.0	68203.200	5.0
155.8274	28.01	-4.31	71770.830	2.5	135944.400	3.5
155.8308	26.02	-.51	118246.520	3.0	182418.700	4.0
155.8343	26.02	.35	135735.310	5.0	199906.030	6.0
155.8345	29.01	-1.75	71493.680	2.0	135664.340	1.0
155.8370	27.02	-3.05	107297.000	1.5	171466.600	2.5
155.8370	27.02	-3.05	107297.000	1.5	171466.600	2.5
155.8370	27.02	-4.22	107297.000	1.5	171466.600	2.5
155.8384	26.02	.05	122829.550	3.0	186998.600	4.0
155.8404	23.02	-1.02	88944.380	2.5	153112.600	3.5
155.8409	26.04	-1.80	195212.000	2.0	259380.000	2.0
155.8413	25.02	-3.03	68892.000	3.5	133059.840	3.5
155.8444	26.02	-.43	135739.470	6.0	199906.030	6.0
155.8446	26.01	-7.39	667.640	2.5	64834.120	1.5
155.8451	14.00	-4.63	77.115	1.0	64243.380	2.0
155.8454	18.01	-2.23	147503.020	1.5	211669.180	2.5
155.8455	26.02	-.99	118246.520	3.0	182412.650	4.0
155.8488	24.01	-5.26	20512.620	2.5	84677.390	3.5
155.8497	28.01	-1.07	51045.460	4.5	115209.850	3.5
155.8520	26.02	-.39	122628.340	2.0	186791.780	2.0
155.8534	25.02	-.71	110711.620	3.5	174874.500	4.5
155.8537	28.01	-1.65	53601.190	1.5	117763.910	1.5
155.8538	26.01	-1.28	2837.940	2.5	67000.630	2.5
155.8545	26.02	-.04	118246.520	3.0	182408.910	3.0
155.8588	10.01	-3.92	254292.190	.5	318452.820	1.5
155.8595	28.01	-.98	57080.550	3.5	121240.900	3.5
155.8598	25.02	-.65	110172.690	1.5	174332.910	1.5
155.8626	24.01	-4.00	20518.330	3.5	84677.390	3.5
155.8626	26.01	-2.53	2430.080	3.5	66589.170	4.5
155.8654	25.04	-1.47	183528.000	2.5	247686.000	3.5
155.8657	26.02	-2.90	124854.040	3.0	189011.840	4.0
155.8663	24.01	-3.56	20519.850	4.5	84677.390	3.5
155.8691	26.01	-1.26	3117.480	1.5	67273.860	1.5
155.8701	5.00	-3.37	0.000	.5	64156.000	.5
155.8705	26.02	-2.88	137763.700	5.0	201919.530	4.0
155.8749	24.03	-2.21	110700.000	3.5	174854.000	3.5
155.8774	24.03	-3.13	109950.000	2.5	174103.000	2.5
155.8801	18.01	-2.25	132481.140	2.5	196633.020	2.5
155.8827	28.01	-3.68	66579.710	1.5	130730.530	2.5
155.8869	26.02	-.51	135735.310	5.0	199884.390	5.0
155.8909	26.02	-3.34	135554.410	4.0	199701.820	3.0
155.8913	28.01	-1.72	57080.550	3.5	121227.800	2.5
155.8931	26.02	-.10	125637.980	3.0	189784.520	2.0
155.8943	26.02	-1.98	118246.520	3.0	182392.550	2.0
155.8951	25.02	-1.87	71564.210	1.5	135709.900	2.5
155.8970	26.02	-1.57	135739.470	6.0	199884.390	5.0
155.8995	26.02	-.623	24940.900	4.0	89084.790	3.0
155.9027	23.02	-4.23	91710.430	3.5	155853.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
155.9043	25.02	-2.65	111776.600	1.5	175918.500	.5
155.9057	14.00	-2.57	223.157	2.0	64364.480	2.0
155.9069	5.00	-3.07	15.150	1.5	64156.000	.5
155.9072	18.01	-.63	132481.140	2.5	196621.880	3.5
155.9080	26.02	-2.22	136185.170	5.0	200325.560	4.0
155.9084	26.01	-.33	1872.600	4.5	66012.830	4.5
155.9158	25.01	-4.65	55115.800	2.0	119253.000	2.0
155.9158	25.01	-4.27	55115.800	2.0	119253.000	3.0
155.9172	9.02	-4.25	349007.250	2.5	413143.860	3.0
155.9209	26.03	-.29	137947.500	1.5	202082.600	1.5
155.9228	26.01	-2.65	22409.820	.5	86544.140	1.5
155.9267	26.01	-2.52	8391.920	2.5	72524.620	1.5
155.9279	28.02	-3.11	82194.300	5.0	146326.500	5.0
155.9284	25.01	-5.97	14781.190	2.0	78913.170	2.0
155.9301	28.02	-3.54	78303.100	2.0	142434.400	2.0
155.9305	28.01	-4.44	71770.830	2.5	135901.960	2.5
155.9305	28.01	-3.63	66579.710	1.5	130710.850	.5
155.9329	28.03	-.56	122377.910	1.5	186508.070	2.5
155.9363	26.02	-1.95	137763.700	5.0	201892.440	5.0
155.9364	14.00	-5.81	223.157	2.0	64351.850	3.0
155.9364	14.00	-3.40	223.157	2.0	64351.860	1.0
155.9444	26.02	.41	136200.130	3.0	200325.560	4.0
155.9464	27.02	-1.59	106954.700	2.5	171079.300	3.5
155.9464	27.02	-1.59	106954.700	2.5	171079.300	3.5
155.9464	27.02	-1.94	106954.700	2.5	171079.300	3.5
155.9469	26.02	.14	118686.250	4.0	182810.660	5.0
155.9498	26.02	-.29	125672.830	2.0	189796.030	1.0
155.9547	27.02	-3.70	73540.200	3.5	137661.400	4.5
155.9576	28.01	-3.85	66571.340	2.5	130691.350	1.5
155.9586	26.01	-3.23	22810.330	3.5	86929.920	3.5
155.9675	26.02	-1.94	132785.360	4.0	196901.270	5.0
155.9778	26.02	-.94	125672.830	2.0	189784.520	2.0
155.9779	28.01	-4.66	66579.710	1.5	130691.350	1.5
155.9824	28.01	-1.59	57080.550	3.5	121190.340	4.5
155.9829	27.01	-6.69	4950.000	2.0	69059.590	3.0
155.9896	25.02	-1.02	113078.340	1.5	177185.180	.5
155.9922	28.03	-.30	111755.520	2.5	175861.270	3.5
155.9927	26.02	-.92	115474.250	6.0	179579.830	5.0
156.0023	28.01	-4.51	67694.640	2.5	131796.260	2.5
156.0025	26.02	-2.09	124854.040	3.0	188955.560	3.0
156.0065	28.01	-4.59	52738.450	2.		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
156.1378	27.02	-1.16	106489.200	3.5	170535.200	4.5	156.3897	26.02	-4.38	121008.780	3.0	184951.620	3.0
156.1378	27.02	-1.16	106489.200	3.5	170535.200	4.5	156.3908	26.02	-7.42	25142.400	3.0	89084.790	3.0
156.1378	27.02	-1.18	106489.200	3.5	170535.200	4.5	156.3937	14.00	-3.05	77.115	1.0	64018.310	1.0
156.1378	10.03	-3.18	579626.000	1.5	643672.000	1.5	156.3970	23.01	-2.56	11908.270	2.0	15848.130	3.0
156.1386	28.01	-4.53	24835.930	.5	88881.590	.5	156.3987	26.01	-4.08	8680.470	1.5	72619.610	2.5
156.1427	25.04	-1.64	177862.000	3.5	241906.000	2.5	156.3995	26.02	-3.25	122944.150	4.0	186882.980	3.0
156.1438	6.00	.18	43.400	2.0	64086.920	3.0	156.4052	27.02	-4.13	107530.100	3.5	171466.600	2.5
156.1497	26.02	-1.08	125637.980	3.0	189679.070	3.0	156.4052	27.02	-4.13	107530.100	3.5	171466.600	2.5
156.1501	26.01	-5.47	0.000	4.5	64040.960	3.5	156.4052	27.02	-4.35	107530.100	3.5	171466.600	2.5
156.1507	26.01	-6.37	384.770	3.5	64425.460	2.5	156.4071	27.02	-2.35	77411.600	5.5	141347.300	4.5
156.1548	26.02	-2.38	79844.740	6.0	143883.740	5.0	156.4089	10.03	-1.05	579737.000	.5	643672.000	1.5
156.1571	25.02	-3.37	110398.500	2.5	174436.590	2.5	156.4103	25.02	-4.30	110398.500	2.5	174332.910	1.5
156.1578	25.02	-1.27	71831.980	2.5	135869.760	3.5	156.4150	13.03	-4.45	624720.500	1.0	688653.000	1.0
156.1578	26.02	-1.71	118442.920	3.0	182480.720	2.0	156.4237	23.02	-4.44	92052.550	4.5	155981.500	3.5
156.1585	24.02	-2.53	94029.200	3.0	158066.700	3.0	156.4270	28.01	-2.79	56075.260	2.5	120002.860	3.5
156.1655	28.01	-3.86	70635.460	2.5	134670.070	1.5	156.4277	26.03	-4.50	127764.700	.5	191692.000	1.5
156.1709	24.02	-1.55	109533.500	4.0	173565.900	5.0	156.4278	26.02	-1.70	138103.120	4.0	202030.380	3.0
156.1711	26.02	-3.33	122346.610	3.0	186378.940	4.0	156.4295	26.02	.03	115289.910	5.0	179216.470	6.0
156.1730	28.01	-1.51	54262.630	3.5	118294.170	3.5	156.4370	26.02	-3.46	83237.860	3.0	147161.360	4.0
156.1746	27.02	-1.10	105965.100	2.5	169996.000	1.5	156.4382	25.01	-4.13	9472.970	2.0	73395.970	2.0
156.1768	27.02	-1.52	82920.700	3.5	146950.700	2.5	156.4402	26.02	-2.39	122346.610	3.0	186268.790	2.0
156.1777	26.02	-2.08	118350.240	4.0	182379.860	5.0	156.4403	25.01	-3.38	9472.970	2.0	73395.120	3.0
156.1784	25.02	-3.48	71831.980	2.5	135861.320	1.5	156.4408	23.01	-3.02	208.890	3.0	64130.840	4.0
156.1794	14.00	-6.39	223.157	2.0	64252.080	2.0	156.4513	26.02	.13	115289.910	5.0	179207.570	5.0
156.1797	29.02	-1.48	62065.000	3.5	126093.800	3.5	156.4514	23.03	-1.95	153918.700	3.0	217836.300	3.0
156.1842	25.02	-2.26	71831.980	2.5	135858.960	2.5	156.4520	25.01	-6.08	29951.120	1.0	93868.500	1.0
156.1894	26.02	-0.99	118355.010	6.0	182379.860	5.0	156.4587	18.01	-4.60	142717.020	3.5	206631.370	2.5
156.1931	26.02	-3.85	79860.420	5.0	143883.740	5.0	156.4610	28.01	-3.92	72985.650	1.5	168899.630	1.5
156.1936	26.02	-4.35	83138.230	5.0	147161.360	4.0	156.4612	28.02	-2.18	97841.400	2.0	161755.000	3.0
156.1948	20.01	-2.59	25191.510	.5	89214.130	.5	156.4613	14.00	-3.71	77.115	1.0	63990.670	2.0
156.1966	28.01	-6.54	70358.940	4.5	134380.820	3.5	156.4638	25.02	-1.03	131123.640	5.5	195036.200	6.5
156.2006	14.00	-3.59	223.157	2.0	64245.380	2.0	156.4638	25.02	-4.66	131123.640	5.5	195036.200	6.5
156.2022	27.02	-4.39	72270.500	3.5	136290.100	3.5	156.4647	25.01	-5.21	9472.970	2.0	73385.150	1.0
156.2045	29.01	-2.86	73595.640	1.0	137614.300	0.0	156.4668	28.01	-1.97	67031.020	.5	130942.360	1.5
156.2053	14.00	-2.41	0.000	0.0	64018.310	1.0	156.4688	8.01	-3.12	214229.480	1.5	278140.000	1.5
156.2085	26.04	-2.10	195942.000	3.0	259595.000	3.0	156.4688	8.01	-2.27	214229.480	1.5	278140.000	2.5
156.2187	25.02	-0.83	130895.390	4.5	194908.200	5.5	156.4713	26.02	-2.46	83646.980	1.0	147556.450	1.0
156.2207	25.01	-4.22	14901.180	1.0	78913.170	2.0	156.4779	18.01	-3.91	142717.020	3.5	206623.800	3.5
156.2231	25.02	-0.05	113676.530	2.5	177687.540	3.5	156.4809	18.01	-3.69	138243.550	1.5	202149.110	2.5
156.2255	18.01	-2.97	138243.550	1.5	202253.590	1.5	156.4811	26.02	-4.76	136532.450	2.0	200437.940	2.0
156.2266	26.01	-1.60	7955.240	3.5	71964.810	2.5	156.4840	26.02	-4.68	115289.910	5.0	179194.220	4.0
156.2274	14.00	-3.35	77.115	1.0	64086.920	1.0	156.4904	26.01	-6.13	384.770	3.5	64286.440	3.5
156.2324	27.01	-1.03	1597.200	2.0	65604.400	3.0	156.4974	25.01	-2.80	38806.530	4.0	102705.370	3.0
156.2338	28.01	-4.25	70635.460	2.5	134642.090	3.5	156.5001	28.01	-1.43	57420.160	2.5	121317.890	3.5
156.2348	26.02	-2.34	125672.830	2.0	189679.070	3.0	156.5004	28.01	-2.48	55417.830	3.5	119315.440	2.5
156.2378	25.02	-0.86	130895.390	4.5	194900.400	5.5	156.5023	25.01	-4.09	38806.530	4.0	102703.340	4.0
156.2442	18.01	-0.98	132630.650	1.5	196633.020	2.5	156.5070	27.02	-1.89	82920.700	3.5	146815.600	3.5
156.2457	26.02	-0.27	118442.920	3.0	182444.700	3.0	156.5098	26.02	-1.51	135990.620	4.0	199884.390	5.0
156.2464	20.02	-0.37	213379.400	3.0	277380.860	2.0	156.5118	26.02	-1.24	122898.840	2.0	186791.780	2.0
156.2503	26.02	-3.32	83161.480	4.0	147161.360	4.0	156.5193	23.01	-1.89	339.210	4.0	64229.100	5.0
156.2515	25.01	-4.77	29869.110	2.0	93868.500	1.0	156.5215	29.02	-0.82	80305.200	1.5	144194.200	2.5
156.2542	30.02	-0.13	83500.300	2.0	147498.600	1.0	156.5322	14.00	-3.40	0.000	0.0	63884.610	1.0
156.2561	27.02	-3.97	107530.100	3.5	171527.600	3.5	156.5324	25.02	-1.39	110036.140	.5	173920.690	1.5
156.2592	26.02	-2.01	135705.570	3.0	199701.820	3.0	156.5358	26.01	-2.03	3117.480	1.5	67000.630	2.5
156.2593	27.02	-4.49	76791.100	1.5	140787.300	2.5	156.5381	18.01	-1.02	144709.910	.5	208592.110	.5
156.2626	23.02	-3.47	88944.380	2.5	152939.200	2.5	156.5389	18.01	-1.38	144709.910	.5	208591.780	1.5
156.2633	26.02	-2.96	121008.780	3.0	185003.350	2.0	156.5394	25.01	-4.63	55371.300	3.0	119253.000	3.0
156.2730	26.01	-4.32	22939.350	2.5	86929.920	3.5	156.5394	25.01	-4.08	55371.300	3.0	119253.000	4.0
156.2766	26.03	.05	138336.300	2.5	202325.400	2.5	156.5400	28.01	-0.32	52205.950	3.5	116087.380	4.5
156.2787	18.01	-2.65	132327.280	3.5	196315.510	2.5	156.5423	28.01	-3.90	70778.120	3.5	134658.600	4.5
156.2810	27.02	-3.94	91715.100	2.5	155702.400	1.5	156.5435	10.03	-3.16	580095.000	3.5	643975.000	2.5
156.2887	26.02	-0.20	122898.840	2.0	186882.980	3.0	156.5443	25.03	-4.22	112408.900	4.0	176288.600	5.0
156.2922	24.02	-1.39	109943.900	5.0	173926.600	6.0	156.5465	24.02	-1.81	94029.200	3.0	157908.000	4.0
156.2924	23.02	-4.88	27727.800	3.5	91710.430	3.5	156.5486	25.02	-2.45	71831.980	2.5	135709.900	2.5
156.3009	26.01	-2.62	22409.820	.5	86388.980	.5	156.5493	9.02	-3.69	349266.200	3.5	413143.860	3.5
156.3043	18.01	-1.22	132327.280	3.5	196305.040	3.5	156.5524	26.01	-3.73	0.000	4.5	63876.380	5.5
156.3073	26.02	-2.14	83429.610	6.0	147406.140	5.0	156.5528	25.02	-1.24	110172.690	1.5	174048.890	2.5
156.3092	26.02	-0.55	118442.920	3.0	182418.700	4.0	156.5538	28.02	-2.64	117066.500	3.0	181482.300	4.0
156.3108	28.01	-1.75	72985.650	1.5	136960.750	2.5	156.5639	24.02	-1.89	93765.600	2.0	157637.300	3.0
156.3130	28.01	-4.77	72985.650	1.5	136959.860	2.5	156.5670	26.02	-4.47	122921.370	1.0	186791.780	2.0
156.3147	27.02	-0.35	76518.900	5.5	140492.400	4.5	156.5705	26.02	-4.43	122843.030	1.0	186712.020	1.0
156.3158	26.02	-1.01	136464.900	1.0	200437.940	2.0	156.5751	24.02	-2.06	94374.700	4.0	158241.800	5.0
156.3180	23.02	-3.43	91710.430	3.5	155682.600	3.5	156.5771	27.02	-4.93	106489.200	3.5	170355.500	2.5
156.3187	29.01	-1.88	73101.870	1.0	137073.750	2.0	156.5804	26.02	-1.87	138054.590	5.0	201919.530	4.0
156.3196	26.01	-6.50	862.630	1.5	64834.120	1.5	156.5821	25.02	-0.09	110711.620	3.5	174575.870	3.5
156.3226	8.01	-2.53	214169.740	.5	278140.000	1.5	156.5821	25.02	-4.98	111111.390	4.5	174975.650	5.5
156.3238	26.03	-0.48	137947.500	1.5	201917.300	.5	156.5847	14.00	-3.15	223.157	2.0	64086.370	1.0
156.3239	26.02	-2.11	118442.920	3.0	182412.650</								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
156.6577	26.02	-4.13	73727.640	2.0	137561.100	1.0
156.6653	23.02	-1.78	89457.670	2.5	153288.000	1.5
156.6674	26.01	-8.14	977.030	.5	64806.520	.5
156.6680	28.01	-3.51	70778.120	3.5	134607.370	4.5
156.6690	5.00	-1.40	15.150	1.5	63844.000	2.5
156.6690	5.00	-2.36	15.150	1.5	63844.000	1.5
156.6698	26.01	-3.23	22939.350	2.5	86767.870	2.5
156.6806	24.02	-2.75	94799.600	5.0	158623.700	4.0
156.6809	26.02	-1.77	70725.010	3.0	134549.000	3.0
156.6811	18.01	-1.34	132481.140	2.5	196305.040	3.5
156.6821	26.01	-.58	1872.600	4.5	65696.110	4.5
156.6843	26.02	-2.11	118557.250	5.0	182379.860	5.0
156.6889	28.01	-1.69	57420.160	2.5	121240.900	3.5
156.6901	26.02	-2.47	70728.750	4.0	134549.000	3.0
156.6954	9.02	-2.74	389525.550	1.5	453343.620	2.5
156.6963	23.01	-2.10	208.890	3.0	64026.600	4.0
156.6963	9.01	-2.36	182864.400	1.0	246682.100	2.0
156.6995	26.02	-1.73	138103.120	4.0	201919.530	4.0
156.7050	26.02	-2.29	135990.620	4.0	199804.810	4.0
156.7068	28.01	-.27	51045.460	4.5	114858.880	5.5
156.7074	26.02	-3.02	122898.840	2.0	186712.020	1.0
156.7090	10.01	-3.45	249839.630	.5	313652.170	1.5
156.7115	27.01	-3.15	1597.200	2.0	65408.710	2.0
156.7207	26.02	-2.21	86847.110	2.0	150654.900	3.0
156.7210	28.01	-1.13	57420.160	2.5	121227.800	2.5
156.7214	14.00	-3.53	77.115	1.0	63884.610	1.0
156.7222	23.01	-3.21	11908.270	2.0	75715.450	1.0
156.7270	27.02	-.21	105965.100	2.5	169770.300	2.5
156.7362	26.01	-3.38	30388.550	4.5	94190.020	5.5
156.7381	25.02	-.37	113676.530	2.5	177477.230	2.5
156.7396	25.03	-3.52	112013.300	3.0	175813.400	4.0
156.7405	20.01	-2.29	25414.400	1.5	89214.130	.5
156.7424	25.02	-1.12	110036.140	.5	173835.070	.5
156.7457	9.01	-2.58	182864.400	1.0	246662.010	1.0
156.7470	14.02	-4.95	176487.190	1.0	240284.280	2.0
156.7495	26.02	.20	136008.740	3.0	199804.810	4.0
156.7517	14.00	-4.67	223.157	2.0	64018.310	1.0
156.7525	10.01	-1.30	249108.640	3.5	312903.480	2.5
156.7541	26.02	-2.98	76956.790	3.0	140750.980	2.0
156.7550	28.01	-4.66	24788.200	1.5	88582.010	1.5
156.7562	18.01	-2.56	147875.860	2.5	211669.180	2.5
156.7592	27.01	-1.61	0.000	4.0	63792.100	4.0
156.7594	25.01	-3.81	39808.140	3.0	103600.170	2.0
156.7601	18.01	-2.07	132327.280	3.5	196119.020	3.5
156.7604	23.01	-3.66	339.210	4.0	64130.840	4.0
156.7628	26.02	-1.57	122921.370	1.0	186712.020	1.0
156.7635	9.01	-3.05	182864.400	1.0	246654.740	0.0
156.7661	26.02	-2.59	138103.120	4.0	201892.440	5.0
156.7702	18.01	-3.13	147875.860	2.5	211663.500	3.5
156.7713	27.02	-4.71	72341.900	1.5	136129.100	2.5
156.7723	25.01	-4.45	39813.380	2.0	103600.170	2.0
156.7726	14.00	-3.57	77.115	1.0	63863.780	2.0
156.7737	28.01	-1.02	53037.930	2.5	116824.150	2.5
156.7778	25.02	-.55	131123.640	5.5	194908.200	5.5
156.7827	26.02	-1.17	136612.780	4.0	200395.330	5.0
156.7840	11.05	-.31	808795.000	2.0	872577.000	1.0
156.7869	28.01	-1.62	72985.650	1.5	136766.490	2.5
156.7909	30.02	-2.60	190341.300	4.0	254120.500	3.0
156.7917	27.02	-1.07	77411.600	5.5	141190.500	5.5
156.7958	26.01	-5.72	8391.920	2.5	72169.150	1.5
156.7967	28.01	-.60	58493.210	2.5	122270.050	3.5
156.7969	25.02	-2.60	131123.640	5.5	194900.400	5.5
156.7987	18.01	-.52	132327.280	3.5	196103.310	4.5
156.8017	26.01	-1.28	2837.940	2.5	66612.740	1.5
156.8064	27.02	-3.62	108052.900	2.5	171825.800	1.5
156.8068	28.01	-2.08	56371.410	3.5	120144.170	2.5
156.8098	26.02	-4.80	166421.330	4.0	230192.860	3.0
156.8099	26.02	-2.54	136612.780	4.0	200384.280	3.0
156.8118	29.02	-1.79	78779.400	1.5	142550.100	.5
156.8128	27.02	-2.03	106764.900	4.5	170535.200	4.5
156.8128	27.02	-2.03	106764.900	4.5	170535.200	4.5
156.8128	27.02	-2.05	106764.900	4.5	170535.200	4.5
156.8129	14.00	-1.99	0.000	0.0	63770.280	1.0
156.8173	25.01	-5.95	29951.120	1.0	93719.600	0.0
156.8196	14.00	-1.33	77.115	1.0	63844.640	0.0
156.8197	14.00	-5.11	223.157	2.0	63990.670	2.0
156.8212	25.02	-.70	131420.030	6.5	195186.900	7.5
156.8261	25.00	-6.02	0.000	2.5	63764.900	2.5
156.8263	26.02	-2.88	118721.600	2.0	182486.400	1.0
156.8286	26.03	-1.41	127928.100	1.5	191692.000	1.5
156.8293	27.02	-.14	106591.900	1.5	170355.500	2.5
156.8298	26.03	-.36	138841.300	3.5	202604.700	3.5
156.8305	25.02	-.17	111111.390	4.5	174874.500	4.5
156.8318	18.01	-2.25	132327.280	3.5	196089.870	2.5
156.8351	28.01	-3.06	70778.120	3.5	134539.370	2.5
156.8363	25.02	-1.04	72183.330	3.5	135944.080	4.5
156.8376	22.02	-4.61	14398.500	4.0	78158.710	4.0
156.8377	26.01	-4.62	30388.550	4.5	94148.710	4.5
156.8398	25.01	-6.62	14325.860	4.0	78085.200	5.0
156.8403	26.02	-2.36	118721.600	2.0	182480.720	2.0
156.8405	26.02	-2.80	119697.640	2.0	183456.690	3.0
156.8413	28.02	-3.62	97996.300	3.0	161755.000	3.0
156.8420	26.02	-2.07	118686.250	4.0	182444.700	3.0
156.8435	26.01	-6.42	667.640	2.5	64425.460	2.5
156.8465	20.02	-3.15	279353.640	1.0	343110.240	0.0
156.8490	24.02	-1.88	56992.200	3.0	120747.600	4.0
156.8507	25.01	-4.49	27546.900	6.0	91301.800	5.0
156.8556	28.02	-.82	79250.800	4.0	143003.700	4.0
156.8563	29.02	-1.43	60804.900	4.5	124557.500	3.5
156.8567	25.02	-1.69	110711.620	3.5	174464.070	4.5
156.8614	24.01	-6.57	21822.860	2.5	85573.420	3.5
156.8618	14.00	-1.78	0.000	0.0	63750.390	1.0
156.8645	26.01	-2.74	8680.470	1.5	72429.740	.5
156.8649	28.01	-3.10	70778.120	3.5	134527.240	3.5
156.8669	29.02	-1.49	63143.600	2.5	126891.900	2.5
156.8677	25.02	-.84	110172.690	1.5	173920.690	1.5
156.8696	26.02	-.03	115474.250	6.0	179221.450	7.0
156.8699	28.01	-1.63	72985.650	1.5	136732.740	1.5
156.8718	26.03	-.30	138336.300	2.5	202082.600	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
156.8724	28.01	-4.71	24835.930	.5	88582.010	1.5
156.8733	23.02	-1.19	89193.470	1.5	152939.200	2.5
156.8819	26.02	.31	115474.250	6.0	179216.470	6.0
156.8864	25.01	-3.04	37847.900	2.0	101588.300	3.0
156.8898	27.02	-2.07	107530.100	3.5	171269.100	4.5
156.8942	26.02	-3.30	138691.810	1.0	202429.040	1.0
156.8942	26.01	-4.16	128210.330	3.5	86547.550	2.5
156.8944	28.01	-3.78	54557.050	4.5	118294.170	3.5
156.8944	25.01	-3.16	37851.150	3.0	101588.300	3.0
156.8958	26.02	-2.86	76956.790	3.0	140693.360	3.0
156.8958	26.01	-4.36	23031.300	1.5	86767.870	2.5
156.9015	10.01	-1.67	249445.990	2.5	313180.230	1.5
156.9038	26.02	-.61	115474.250	6.0	179207.570	5.0
156.9048	29.02	-1.31	78779.400	1.5	142512.300	1.5
156.9059	26.02	-.01	118686.250	4.0	182418.700	4.0
156.9099	25.01	-4.72	27570.950	5.0	91301.800	5.0
156.9105	18.01	-1.02	147875.860	2.5	211606.470	3.5
156.9121	28.01	-3.95	52738.450	2.5	116468.000	1.5
156.9131	26.02	-4.53	83161.480	4.0	146891.040	3.0
156.9208	26.02	-.39	118686.250	4.0	182412.650	4.0
156.9212	29.01	-3.01	69867.810	2.0	133594.050	3.0
156.9228	25.03	-3.05	111710.400	2.0	175436.000	3.0
156.9244	25.02	-.19	110711.620	3.5	174436.590	2.5
156.9257	28.03	-1.37	122709.410	.5	186433.850	1.5
156.9258	27.02	-1.00	77622.900	4.5	141347.300	4.5
156.9265	26.02	-4.53	73849.100	1.0	137573.200	0.0
156.9267	24.03	-2.28	109950.000	2.5	173674.000	1.5
156.9290	26.02	-.89	118721.600	2.0	182444.700	3.0
156.9300	26.02	-1.61	118686.250	4.0	182408.910	3.0
156.9318	14.00	-4.44	223.157	.5	63945.090	3.0
156.9328	25.02	-1.84	71395.270	.5	135116.800	1.5
156.9345	26.02	-1.70	136185.170	5.0	199906.030	6.0
156.9350	29.01	-3.55	73353.120	2.0	137073.750	2.0
156.9374	28.01	-4.34	56424.490	1.5	120144.170	2.5
156.9393	24.02	-1.29	109943.900	5.0	173662.800	6.0
156.9403	25.01	-5.60	27583.300	4.0	91301.800	5.0
156.9411	23.01	-6.24	339.210	4.0	64057.390	3.0
156.9414	29.01	-.19	72724.000	2.0	136442.050	3.0
156.9415	28.02	-2.61	55952.000	2.0	119670.000	2.0
156.9544	26.02	-2.37	136612.780	4.0	200325.560	4.0
156.9563	26.02	-3.82	73849.100	1.0	137561.100	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
157.1135	26.01	-2.42	2430.080	3.5	66078.340	2.5	157.3661	25.01	-3.11	30686.810	1.0	94230.900	2.0
157.1168	29.02	-0.82	78779.400	1.5	142426.300	2.5	157.3661	27.02	-2.44	47415.400	2.5	110961.500	1.5
157.1191	25.02	-2.53	71395.270	.5	135041.250	1.5	157.3672	28.01	-5.69	25036.380	2.5	88582.010	1.5
157.1230	14.00	-2.56	77.115	1.0	63721.530	2.0	157.3728	26.01	-4.39	22939.350	2.5	86482.750	3.5
157.1237	26.02	-2.00	136793.820	2.0	200437.940	2.0	157.3764	28.01	-2.52	56371.410	3.5	119913.330	4.5
157.1257	24.02	-3.90	94799.600	5.0	158442.900	4.0	157.3802	26.02	-2.75	70725.010	3.0	134265.420	2.0
157.1265	20.02	-1.09	213379.400	3.0	277022.400	3.0	157.3826	26.01	-1.11	2837.940	2.5	66377.370	3.5
157.1272	29.02	-1.32	80551.500	2.5	144194.200	2.5	157.3856	18.01	-3.11	142717.020	3.5	206255.230	2.5
157.1291	28.01	-3.01	68154.310	1.5	131796.260	2.5	157.3859	27.02	-4.60	108403.400	1.5	171941.500	.5
157.1317	26.02	-1.92	136797.050	3.0	200437.940	2.0	157.3864	30.02	-1.43	208041.300	2.0	271579.200	3.0
157.1323	14.00	-3.10	223.157	2.0	38363.780	2.0	157.3871	24.02	-0.24	93765.600	2.0	157303.200	1.0
157.1328	26.02	-1.10	122628.340	2.0	186268.790	2.0	157.3884	14.00	-0.82	223.157	2.0	63760.240	3.0
157.1341	28.02	-2.82	71383.700	2.0	135023.600	3.0	157.3889	56.01	-2.75	5674.824	0.0	69211.706	0.0
157.1381	30.02	-4.54	237047.800	2.0	300686.100	3.0	157.3931	28.01	-3.40	70706.770	1.5	134241.960	.5
157.1391	18.01	-1.29	132481.140	2.5	196119.020	3.5	157.3978	24.02	-0.56	94374.700	4.0	157908.000	4.0
157.1398	29.02	-2.46	60804.900	4.5	124442.500	4.5	157.3994	26.01	-2.38	6860.470	1.5	72213.100	.5
157.1406	14.00	-0.83	77.115	1.0	63714.400	2.0	157.4006	26.02	-2.88	83358.880	2.0	146891.040	3.0
157.1412	28.01	-5.94	10663.890	1.5	73300.930	1.5	157.4017	25.02	-0.49	110711.620	3.5	174243.330	3.5
157.1533	9.02	-3.28	389737.630	.5	453369.770	1.5	157.4036	26.01	-0.41	20340.360	5.5	83871.310	4.5
157.1545	26.02	-1.94	70728.750	4.0	134360.400	4.0	157.4052	27.02	-2.84	71873.700	5.5	135404.000	4.5
157.1550	28.01	-1.55	56371.410	3.5	120002.860	3.5	157.4075	26.01	-6.36	20830.520	2.5	84359.900	1.5
157.1566	27.02	-1.38	105965.100	2.5	169595.900	3.5	157.4095	18.01	-1.62	142717.020	3.5	206245.570	3.5
157.1584	23.02	-4.11	92052.550	4.5	155682.600	3.5	157.4096	26.02	-1.05	136797.050	3.0	200325.560	4.0
157.1636	26.02	-2.14	138264.470	6.0	201892.440	5.0	157.4128	14.00	-2.77	223.157	2.0	63750.390	1.0
157.1660	10.03	-2.90	579307.000	2.5	642934.000	3.5	157.4144	25.02	-2.99	72183.330	3.5	135709.900	2.5
157.1706	26.02	-4.86	73935.960	0.0	137561.100	1.0	157.4158	9.02	-4.66	357479.350	1.5	421005.360	.5
157.1783	24.02	-0.23	109943.900	5.0	173565.900	5.0	157.4191	26.02	-1.80	118867.870	1.0	182392.550	2.0
157.1804	23.01	-2.48	36.050	1.0	63657.200	2.0	157.4201	27.02	-2.54	77121.100	4.5	140645.400	3.5
157.1821	25.02	-0.16	112645.310	.5	176265.780	1.5	157.4206	18.01	-2.18	143107.600	2.5	206631.670	2.5
157.1842	26.02	-2.31	136185.170	5.0	199804.810	4.0	157.4213	25.00	-8.17	0.000	2.5	63523.820	2.5
157.1847	28.01	-6.51	10663.890	1.5	74283.330	.5	157.4220	28.01	-4.62	51557.850	3.5	115081.360	4.5
157.1862	26.01	-5.75	667.640	2.5	64286.440	3.5	157.4253	25.02	-1.52	110398.500	2.5	173920.690	1.5
157.1869	26.02	-2.40	118867.870	1.0	182486.400	1.0	157.4265	23.02	-3.18	89417.500	3.5	152939.200	2.5
157.1910	23.01	-1.70	2687.010	2.0	66303.880	3.0	157.4387	28.02	-1.73	98238.200	4.0	161755.000	3.0
157.1927	25.02	-2.97	131420.030	6.5	195036.200	6.5	157.4400	26.01	-4.39	22301.300	1.5	86547.550	2.5
157.1927	25.02	.67	131420.030	6.5	195036.200	6.5	157.4401	18.01	-0.98	143107.600	2.5	206623.800	3.5
157.2006	10.03	-2.88	579626.000	1.5	643239.000	.5	157.4418	25.01	-2.60	43370.370	3.0	106885.900	4.0
157.2009	26.02	-3.50	118867.870	1.0	182486.400	1.0	157.4422	28.01	.18	68709.760	.5	132225.150	1.5
157.2023	26.01	-4.88	23317.600	2.5	86929.920	3.5	157.4485	26.01	-3.41	23031.300	1.5	86544.140	1.5
157.2059	11.01	-2.00	299889.160	1.0	363500.000	1.0	157.4494	23.01	-2.77	36.050	1.0	63548.500	1.0
157.2111	18.01	-4.81	132481.140	2.5	196089.870	2.5	157.4537	26.02	-3.59	122944.150	4.0	186454.890	5.0
157.2124	26.01	-4.53	22939.350	2.5	86547.550	2.5	157.4571	27.01	-0.24	0.000	4.0	63509.370	4.0
157.2127	24.02	-0.58	94029.200	3.0	157637.300	3.0	157.4578	28.02	-1.54	71841.900	1.0	135351.000	2.0
157.2129	23.01	-2.58	208.890	3.0	63816.900	3.0	157.4584	25.02	-2.91	72183.330	3.5	135692.170	3.5
157.2133	25.01	-3.67	27570.950	5.0	91178.800	4.0	157.4615	27.02	-1.66	107297.000	1.5	170804.600	1.5
157.2161	28.01	-0.97	76402.030	2.5	140008.760	3.5	157.4627	14.00	-3.15	77.115	1.0	63584.220	1.0
157.2193	25.02	-0.05	113078.340	1.5	176683.760	2.5	157.4651	24.01	-8.18	12303.980	3.5	75810.100	4.5
157.2209	26.01	-2.88	22939.350	2.5	86544.140	1.5	157.4745	14.00	-2.86	77.115	1.0	63579.440	0.0
157.2211	26.02	-1.54	136200.130	3.0	199804.810	4.0	157.4749	20.02	-2.79	227432.110	1.0	290934.300	0.0
157.2258	27.02	-0.44	106591.900	1.5	170194.700	.5	157.4754	10.03	-1.94	579737.000	.5	643239.000	.5
157.2297	24.01	-0.92	0.000	2.5	63601.200	3.5	157.4756	26.03	-0.73	128190.100	2.5	191692.000	1.5
157.2412	25.01	-3.55	43370.370	3.0	106966.940	2.0	157.4761	26.02	-1.54	136200.130	3.0	199701.820	3.0
157.2438	25.01	-4.40	27583.300	4.0	91178.800	4.0	157.4765	28.01	-3.03	68154.310	1.5	131655.830	.5
157.2444	18.01	-2.96	132481.140	2.5	196076.390	1.5	157.4769	26.01	-1.29	2430.080	3.5	65931.460	3.5
157.2491	28.01	-2.94	58493.210	2.5	122086.580	3.5	157.4813	28.02	-1.48	82826.900	4.0	146326.500	5.0
157.2505	25.02	-1.12	113676.530	2.5	177269.340	1.5	157.4844	14.00	-0.64	223.157	2.0	63721.530	2.0
157.2505	13.03	.07	624720.500	1.0	688313.300	2.0	157.4895	26.02	-2.58	76956.790	3.0	140453.100	3.0
157.2535	28.01	-2.88	58493.210	2.5	122084.790	1.5	157.4921	26.01	-0.55	3117.480	1.5	66612.740	1.5
157.2551	26.02	-0.94	77102.430	2.0	140693.360	3.0	157.4924	23.01	-0.66	2808.760	3.0	66303.880	3.0
157.2560	25.01	-4.42	27588.230	3.0	91178.800	4.0	157.4949	28.01	-0.92	70358.940	4.5	133853.040	4.5
157.2563	26.02	-1.22	136793.820	2.0	200384.280	3.0	157.4970	28.01	-2.25	70748.700	.5	134241.960	.5
157.2574	28.01	-3.69	56075.260	2.5	119665.290	2.5	157.5004	28.01	-1.42	70358.940	4.5	133850.830	3.5
157.2625	26.02	-2.33	116316.630	5.0	179904.560	6.0	157.5020	14.00	-1.65	223.157	2.0	63714.400	2.0
157.2643	26.02	-3.11	136797.050	3.0	200384.280	3.0	157.5025	26.01	-1.30	1872.600	4.5	65363.660	5.5
157.2648	28.01	-1.57	58493.210	2.5	122080.250	2.5	157.5084	26.01	-3.58	8680.470	1.5	72169.150	1.5
157.2648	27.01	-0.79	0.000	4.0	63587.000	3.0	157.5097	25.02	-0.37	131420.030	6.5	194908.200	5.5
157.2654	25.02	-3.84	84981.630	3.5	148568.400	2.5	157.5127	14.00	-1.50	0.000	0.0	63486.930	1.0
157.2682	56.01	-1.88	5674.824	0.0	69260.469	0.0	157.5131	26.01	-9.57	15844.710	4.5	79331.490	3.5
157.2710	27.02	-2.94	47698.600	1.5	111283.100	.5	157.5170	28.01	-3.99	56424.490	1.5	119909.720	1.5
157.2713	12.02	-0.44	467378.500	1.0	530962.900	0.0	157.5181	15.00	-1.50	18747.950	1.5	82232.700	2.5
157.2717	14.00	-3.02	0.000	0.0	63584.220	1.0	157.5183	10.01	-2.00	249695.530	1.5	313180.230	1.5
157.2726	26.02	-2.09	136117.940	2.0	199701.820	3.0	157.5198	26.03	-0.36	138841.300	3.5	202325.400	2.5
157.2727	25.00	-6.32	0.000	2.5	63583.840	1.5	157.5238	25.02	-4.21	86051.500	2.5	149533.980	1.5
157.2735	26.02	-2.94	118246.520	3.0	181300.020	3.0	157.5239	25.01	-2.53	43484.500	2.0	106966.940	2.0
157.2748	26.01	-3.34	8846.760	.5	72429.740	.5	157.5261	23.02	-2.15	89457.670	2.5	152939.200	2.5
157.2754	26.01	-1.62	2430.080	3.5	66012.830	4.5	157.5281	26.02	-1.21	79840.120	7.0	143320.850	6.0
157.2769	26.02	-2.95	118246.520	3.0	181828.660	2.0	157.5305	26.02	-2.42	118350.240	4.0	181830.020	3.0
157.2797	28.01	-4.39	56075.260	2.5	119656.250	3.5	157.5336	25.02	-4.57	114209.010	3.5</		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
157.6150	18.01	-1.67	132630.650	1.5	196076.390	1.5	157.8482	25.04	-0.59	183528.000	2.5	246880.000	2.5
157.6238	24.02	-0.69	94799.600	5.0	158241.800	5.0	157.8490	26.01	-0.70	20516.980	2.5	83868.650	2.5
157.6246	23.01	-3.59	106.630	2.0	63548.500	1.0	157.8515	26.02	-2.99	77102.430	2.0	140453.100	3.0
157.6259	26.02	-2.37	116316.630	5.0	179757.980	4.0	157.8536	23.01	-2.01	2808.760	3.0	66158.600	4.0
157.6268	25.04	0.09	184633.000	3.5	248074.000	2.5	157.8571	26.02	-2.90	105929.160	3.0	169277.600	4.0
157.6270	27.02	-1.34	105008.700	3.5	168449.600	3.5	157.8572	28.02	-4.54	71067.000	3.0	134415.400	4.0
157.6274	23.02	-1.10	94714.250	5	158155.000	1.5	157.8590	22.02	-2.68	14398.500	4.0	77746.180	3.0
157.6311	26.02	-2.80	122829.550	3.0	186268.790	2.0	157.8596	26.02	-0.58	122921.370	1.0	186268.790	2.0
157.6316	28.01	-2.90	58705.950	1.5	122144.990	2.5	157.8625	28.01	-3.82	70706.770	1.5	134053.050	2.5
157.6335	27.01	-8.76	19189.900	4.0	82628.200	3.0	157.8679	27.01	-1.66	0.000	4.0	63344.100	3.0
157.6342	26.04	-1.07	195942.000	3.0	259380.000	2.0	157.8701	24.02	-1.78	57422.100	4.0	120765.300	5.0
157.6417	25.01	-4.95	27583.300	4.0	91018.300	3.0	157.8716	30.02	-3.70	233610.400	2.0	296953.000	2.0
157.6422	26.02	-1.59	122944.150	4.0	186378.940	4.0	157.8734	28.01	-2.23	72985.650	1.5	136327.550	1.5
157.6484	28.01	-4.58	70635.460	2.5	134067.760	1.5	157.8748	26.02	-0.37	116419.390	2.0	179760.720	3.0
157.6493	18.01	-1.89	142717.020	3.5	206148.940	3.5	157.8766	10.01	-2.83	249839.630	5	313180.230	1.5
157.6503	26.02	-1.68	116316.630	5.0	179748.170	5.0	157.8772	28.01	-4.67	24788.200	1.5	88128.560	2.5
157.6505	27.01	-2.31	1597.200	2.0	65028.650	1.0	157.8779	26.02	-1.51	116419.390	2.0	179759.490	2.0
157.6509	23.03	-1.11	153918.700	3.0	217350.000	3.0	157.8791	28.02	-3.10	55406.100	3.0	118745.700	3.0
157.6539	25.01	-5.18	27588.230	3.0	91018.300	3.0	157.8812	18.01	-0.62	132737.610	5	196076.390	1.5
157.6558	28.01	-3.26	52738.450	2.5	116167.760	1.5	157.8847	28.01	-4.65	67694.640	2.5	131032.010	2.5
157.6559	25.01	-7.04	27589.030	2.0	91018.300	3.0	157.8849	25.02	-1.35	110711.620	3.5	174048.890	2.5
157.6637	26.02	-0.72	116467.410	4.0	179893.560	5.0	157.8856	27.02	-5.00	108403.400	1.5	171740.400	1.5
157.6646	26.02	-0.57	122843.030	1.0	186268.790	2.0	157.8856	27.02	-5.00	108403.400	1.5	171740.400	1.5
157.6717	26.02	-2.25	98661.880	1.0	162084.800	2.0	157.8856	27.02	-3.65	108403.400	1.5	171740.400	1.5
157.6723	25.03	-1.92	112013.300	3.0	175436.000	3.0	157.8864	28.01	-0.66	53496.490	5.5	116833.150	4.5
157.6730	27.02	-2.61	108403.400	1.5	171825.800	1.5	157.8889	23.01	-0.08	2968.220	4.0	66303.880	3.0
157.6750	24.02	-0.05	110505.000	6.0	173926.600	6.0	157.9040	28.01	-4.51	71770.830	2.5	135100.450	3.5
157.6788	29.01	-3.18	73353.120	2.0	136773.200	1.0	157.9050	26.01	-4.75	32909.870	5.5	96239.100	4.5
157.6793	26.01	-6.18	667.640	2.5	64087.500	2.5	157.9092	9.01	-3.64	215069.590	2.0	278397.120	1.0
157.6799	27.01	-2.38	1597.200	2.0	65016.830	2.0	157.9096	25.02	-3.49	72183.330	3.5	135510.700	2.5
157.6824	14.00	-1.62	223.157	2.0	63641.770	3.0	157.9125	27.02	-3.05	108403.400	1.5	171729.600	2.5
157.6832	27.02	-3.41	47864.800	5	111283.100	5	157.9138	24.02	-2.91	57422.100	4.0	120747.800	4.0
157.6850	26.02	-1.65	118355.010	6.0	181772.590	6.0	157.9140	24.01	-5.11	19528.880	5	82854.000	5
157.6898	18.01	-0.47	142717.020	3.5	206132.660	4.5	157.9145	28.02	-2.49	79250.300	4.0	142576.200	5.0
157.6932	25.02	-1.92	71831.980	2.5	135246.270	2.5	157.9220	26.01	-3.36	8846.760	5	72169.150	1.5
157.6946	27.02	-4.75	108052.900	2.5	171466.600	2.5	157.9262	27.02	-3.10	72083.300	4.5	135404.000	4.5
157.6946	27.02	-4.75	108052.900	2.5	171466.600	2.5	157.9284	25.01	-4.45	31760.930	2.0	95080.760	1.0
157.6946	27.02	-2.93	108052.900	2.5	171466.600	2.5	157.9303	28.01	-4.02	70748.700	5	134067.760	1.5
157.6970	24.01	-9.47	12303.980	3.5	75716.740	3.5	157.9325	26.02	-1.76	116364.760	0.0	179682.940	1.0
157.7015	28.01	-0.47	68709.760	5	132120.700	5	157.9340	26.02	-0.81	125637.980	3.0	188955.560	3.0
157.7016	25.01	-4.87	43339.100	2.0	106750.000	2.0	157.9342	27.01	-0.44	1597.200	2.0	64914.710	2.0
157.7041	25.01	-2.64	43557.030	1.0	106966.940	2.0	157.9354	28.01	-2.99	51557.850	3.5	114874.880	2.5
157.7043	14.00	-2.77	77.115	1.0	63486.930	1.0	157.9360	29.02	-1.00	62065.000	3.5	125381.800	2.5
157.7056	26.02	-2.10	116467.410	4.0	179876.710	4.0	157.9405	27.02	-1.76	77472.300	2.5	140787.300	2.5
157.7057	27.01	-0.34	950.300	3.0	64359.560	3.0	157.9426	26.02	-0.58	116316.630	5.0	179630.770	4.0
157.7063	27.02	-2.18	76791.100	1.5	140200.100	1.5	157.9447	24.01	-9.23	12496.790	4.5	75810.100	4.5
157.7071	26.02	0.36	116316.630	5.0	179725.310	6.0	157.9471	25.02	-1.08	113078.340	1.5	176390.670	2.5
157.7107	28.01	-2.21	52738.450	2.5	116145.690	3.5	157.9507	30.02	-2.63	233610.400	2.0	296921.300	3.0
157.7113	28.01	-1.10	58705.950	1.5	122112.940	5	157.9525	26.02	-4.21	50295.200	3.0	113605.370	3.0
157.7113	26.04	-4.10	195942.000	3.0	259349.000	4.0	157.9537	23.01	-4.39	2687.010	2.0	65996.700	3.0
157.7140	24.02	-0.11	94029.200	3.0	174335.100	2.0	157.9554	26.01	-4.49	30764.460	3.5	94073.460	3.5
157.7143	25.03	-0.85	112882.800	5.0	176288.600	5.0	157.9554	24.04	0.46	168099.000	3.0	231408.000	4.0
157.7150	25.01	-2.58	43557.030	1.0	106962.560	1.0	157.9562	28.01	-2.06	73903.250	5	137211.930	5
157.7151	26.02	-4.32	126390.570	1.0	189796.030	1.0	157.9612	27.01	-2.23	0.000	4.0	63306.700	5.0
157.7167	26.01	-1.13	3117.680	1.5	66522.320	2.5	157.9650	28.01	-2.80	72985.650	1.5	136290.830	5
157.7173	26.02	-0.72	122898.840	2.0	186303.440	3.0	157.9704	23.01	-8.61	12545.150	4.0	75848.130	3.0
157.7175	25.03	-1.30	112408.900	4.0	175813.400	4.0	157.9705	28.01	-2.81	72985.650	1.5	136288.600	2.5
157.7183	27.02	3.46	77383.100	3.5	140787.300	2.5	157.9707	26.02	-1.84	116380.070	1.0	179682.940	1.0
157.7185	27.02	-1.11	106591.900	1.5	169996.000	1.5	157.9738	25.01	-4.93	46903.260	2.0	110204.900	3.0
157.7204	18.01	-3.39	142717.020	3.5	206120.350	2.5	157.9826	27.01	-9.04	22414.500	3.0	85712.600	2.0
157.7212	24.03	-1.81	110700.000	3.5	174103.000	2.5	157.9854	27.02	-4.29	107507.600	5	170804.600	1.5
157.7255	26.02	-3.36	116475.440	3.0	179876.710	4.0	157.9858	26.02	-1.01	116380.070	1.0	179676.890	2.0
157.7262	29.01	-2.17	73353.120	2.0	136754.110	2.0	157.9876	28.01	-1.47	55018.710	2.5	118314.820	2.5
157.7267	27.02	-3.39	106954.700	2.5	170355.500	2.5	157.9918	28.01	-2.59	70635.460	2.5	133929.880	3.5
157.7296	25.02	-0.00	114287.910	2.5	177687.540	3.5	157.9932	28.01	-3.23	56371.410	3.5	119665.290	2.5
157.7302	25.01	-2.95	43557.030	1.0	106956.420	0.0	157.9946	26.02	-1.45	116467.410	4.0	179760.720	3.0
157.7304	26.02	-4.06	50184.900	2.0	113584.200	2.0	157.9959	28.01	-1.02	53601.190	1.5	116893.980	2.5
157.7336	8.01	-3.40	211521.980	1.5	274920.000	1.5	157.9979	9.02	-4.69	390077.800	2.5	453369.770	1.5
157.7336	8.01	-4.40	211521.980	1.5	274920.000	2.5	158.0001	28.02	-0.70	79143.300	2.0	142434.400	2.0
157.7400	25.00	-8.43	0.000	2.5	63395.450	3.5	158.0014	26.02	-4.03	116467.410	4.0	179757.980	4.0
157.7406	17.03	-2.01	251725.800	1.0	315121.000	1.0	158.0062	9.02	-3.85	390080.300	1.5	453369.770	1.5
157.7438	26.02	-2.66	126390.570	1.0	189784.520	2.0	158.0059	25.00	-7.27	0.000	2.5	63288.780	3.5
157.7441	25.02	-3.36	71395.270	5	134789.080	5	158.0060	24.01	-4.75	19631.280	1.5	82920.030	1.5
157.7479	11.01	-3.72	300107.710	2.0	363500.000	1.0	158.0063	26.02	-2.07	124854.040	3.0	188142.640	2.0
157.7495	24.01	-5.46	19528.380	5	82920.030	1.5	158.0146	26.02	-1.42	116475.440	3.0	179760.720	3.0
157.7608	26.02	-3.81	118442.920	3.0	181830.020	3.0	158.0153	18.01	-1.50	147227.970	5	210512.980	1.5
157.7624	25.01	-3.95	30795.570	4.0	94182.200	3.0	158.0157	28.01	-2.75	56371.410	3.5	119656.250	3.5
157.7642	26.02	-4.21	118442.920	3.0	1818								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
158.0698	26.02	-0.55	116316.630	5.0	179579.830	5.0	158.3046	26.02	-0.14	136532.450	2.0	199701.820	3.0
158.0705	27.02	-3.06	47698.600	1.5	110961.500	1.5	158.3053	28.01	-1.54	70358.940	4.5	133528.020	3.5
158.0713	24.02	-0.03	94374.700	4.0	157637.300	3.0	158.3128	28.02	-3.23	71067.000	3.0	134233.100	2.0
158.0720	27.02	-2.14	77383.100	3.5	140645.400	3.5	158.3151	26.01	-6.54	23317.600	2.5	86482.750	3.5
158.0733	27.02	-0.77	77121.100	4.5	140382.900	3.5	158.3196	26.02	-0.33	116467.410	4.0	179630.770	4.0
158.0770	18.01	-0.79	143371.350	1.5	206631.670	2.5	158.3224	18.01	-3.64	139258.250	5.5	202420.490	5.5
158.0840	26.02	-0.84	116419.390	2.0	179676.890	2.0	158.3297	26.02	-1.04	124854.040	3.0	188013.400	4.0
158.0863	24.02	-3.13	109943.900	5.0	173200.500	5.0	158.3304	26.02	-0.85	123552.950	1.0	186712.020	1.0
158.0875	26.02	-0.25	123455.920	0.0	186712.020	1.0	158.3319	29.01	-3.28	73595.640	1.0	136754.110	2.0
158.0889	26.02	-1.22	124854.040	3.0	188109.580	3.0	158.3336	24.02	-1.62	110505.000	6.0	173662.800	6.0
158.0910	26.03	-1.33	127764.700	0.5	191019.400	0.5	158.3395	28.01	-2.27	70706.770	1.5	133862.210	1.5
158.0912	18.01	-0.27	145668.800	1.5	208923.410	2.5	158.3398	26.02	-0.57	116475.440	3.0	179630.770	4.0
158.0968	18.01	-1.22	145668.800	1.5	208921.200	1.5	158.3418	9.02	-0.49	418188.480	0.5	481343.010	0.5
158.0991	26.02	-2.01	118557.250	5.0	181808.700	5.0	158.3420	26.02	-2.83	124955.880	1.0	188109.320	0.0
158.1053	9.02	-3.22	390120.770	0.5	453369.770	1.5	158.3431	27.01	-8.12	19189.900	4.0	82343.900	4.0
158.1072	26.02	-0.11	123750.390	3.0	186998.600	4.0	158.3473	26.01	-3.25	32909.870	5.5	96062.180	5.5
158.1076	28.01	-3.58	70706.770	1.5	133954.850	0.5	158.3486	28.01	-4.88	53634.620	1.5	116786.420	0.5
158.1085	28.01	-1.05	67694.640	2.5	130942.360	1.5	158.3504	27.02	-4.06	83799.600	2.5	146950.700	2.5
158.1113	26.02	-1.75	84159.550	4.0	147406.140	5.0	158.3507	28.01	-1.46	70706.770	1.5	133857.730	0.5
158.1134	8.02	-1.94	293865.260	1.0	357111.000	2.0	158.3534	8.02	-1.50	365619.120	2.0	428769.000	3.0
158.1159	26.02	-1.60	84369.920	2.0	147614.650	2.0	158.3591	18.01	-1.49	143107.600	2.5	206255.230	2.5
158.1200	25.02	-2.76	71395.270	0.5	134638.390	1.5	158.3639	27.02	-4.16	70934.100	2.5	134079.800	1.5
158.1220	30.02	-3.87	233610.400	2.0	296852.700	1.0	158.3662	28.01	-2.68	70778.120	3.5	133922.910	4.5
158.1225	26.02	-0.67	43131.400	2.0	106373.700	2.0	158.3679	29.01	-0.50	71531.500	3.0	134675.600	2.0
158.1258	28.01	-4.73	116419.390	2.0	179661.480	3.0	158.3688	26.02	-2.33	118868.250	4.0	181830.020	3.0
158.1268	26.01	-2.24	56424.490	1.5	119665.290	2.5	158.3691	16.00	-3.41	9237.760	2.0	72381.378	1.0
158.1273	28.01	-2.42	2837.940	2.5	66078.340	2.5	158.3728	15.00	-2.42	18747.950	1.5	81890.100	2.5
158.1294	28.01	-6.49	56075.260	2.5	119315.440	2.5	158.3790	25.00	-4.51	0.000	2.5	63139.700	2.5
158.1307	26.02	-0.35	10663.890	1.5	73903.250	0.5	158.3797	26.02	-2.54	118686.250	4.0	181825.670	4.0
158.1310	26.02	-2.28	123552.950	1.0	166791.780	2.0	158.3833	18.01	-1.15	143107.600	2.5	206245.570	3.5
158.1310	25.03	-2.59	124903.920	2.0	188142.640	2.0	158.3927	25.02	-4.48	86486.770	1.5	149621.000	0.5
158.1325	27.02	-1.75	130969.500	3.0	194208.200	3.0	158.3945	27.02	-2.14	72270.500	3.5	135404.000	4.5
158.1331	28.01	-0.48	110371.200	2.5	173609.300	1.5	158.3953	9.02	-3.85	390210.430	3.5	453343.620	2.5
158.1345	27.02	-2.31	53037.930	2.5	116275.810	3.5	158.3956	14.00	-2.06	223.157	2.0	63356.240	2.0
158.1350	26.01	-4.44	77121.100	4.5	140358.400	4.5	158.3961	18.02	-3.97	204649.240	2.0	267782.100	3.0
158.1390	26.02	-3.79	1872.600	4.5	65109.710	3.5	158.3968	26.02	-0.72	123750.390	3.0	186882.980	3.0
158.1402	29.01	-2.61	82382.870	3.0	145618.390	2.0	158.3984	25.02	-1.05	111111.390	4.5	174243.330	3.5
158.1510	30.02	-0.46	73101.870	1.0	136336.880	1.0	158.3987	28.01	-1.89	52738.450	2.5	115870.280	2.5
158.1529	26.01	-7.38	78096.300	3.0	141327.000	4.0	158.4003	26.01	-4.51	3117.480	1.5	66248.670	0.5
158.1564	29.01	-3.63	23317.600	2.5	86547.550	2.5	158.4013	25.02	-2.06	113078.340	1.5	176209.150	1.5
158.1583	26.02	-3.62	72724.000	2.0	135952.550	2.0	158.4021	14.00	-3.24	0.000	0.0	63130.490	1.0
158.1609	28.01	-3.25	124903.920	2.0	188131.700	1.0	158.4053	23.01	-0.51	2687.010	2.0	65816.200	1.0
158.1614	26.01	-6.60	70635.460	2.5	133862.210	1.5	158.4089	14.00	-3.80	77.115	1.0	63204.890	2.0
158.1656	26.01	-6.56	23317.600	2.5	86544.140	1.5	158.4127	26.01	-4.02	2430.080	3.5	65556.340	4.5
158.1682	26.01	-3.83	862.630	1.5	64087.500	2.5	158.4196	26.02	-3.28	82494.880	1.0	145618.390	2.0
158.1693	23.02	-5.85	30764.460	3.5	93988.300	2.5	158.4222	26.02	-1.52	118686.250	4.0	181808.700	5.0
158.1704	28.01	-0.68	43942.490	1.5	107165.900	1.5	158.4233	24.01	-4.73	19798.010	2.5	82920.030	1.5
158.1710	24.01	-5.91	53601.190	1.5	116824.150	2.5	158.4252	28.01	-4.89	67694.640	2.5	130815.910	3.5
158.1779	24.01	-9.82	19631.280	1.5	82854.000	0.5	158.4259	24.04	-1.35	171736.000	2.0	234857.000	2.0
158.1798	28.01	-2.34	12496.790	4.5	75716.740	3.5	158.4290	28.03	-1.16	122377.910	1.5	185497.660	2.5
158.1821	28.01	-2.57	58705.950	1.5	121925.160	0.5	158.4336	23.02	-4.93	43942.490	1.5	107060.410	0.5
158.1847	8.01	-3.00	52738.450	2.5	115956.710	2.5	158.4346	14.00	-1.81	223.157	2.0	63340.700	3.0
158.1865	29.02	-1.63	211521.980	1.5	274739.200	2.5	158.4389	26.02	-0.65	137209.730	4.0	200325.560	4.0
158.1895	26.02	-3.48	85446.400	1.5	148662.900	2.5	158.4429	13.03	-1.15	624720.500	1.0	687834.700	2.0
158.1991	29.01	-0.03	118557.250	5.0	181772.590	6.0	158.4432	25.00	-5.76	0.000	2.5	63114.110	1.5
158.1994	23.01	-0.83	71531.500	3.0	134743.000	4.0	158.4435	26.04	-1.44	196845.000	4.0	259959.000	3.0
158.2036	30.02	-0.29	2604.820	1.0	65816.200	1.0	158.4447	28.01	-2.84	70748.700	0.5	133862.210	1.5
158.2048	9.02	-4.98	79273.600	2.0	142483.300	2.0	158.4469	9.02	-4.08	418248.560	1.5	481361.170	1.5
158.2048	13.03	-1.19	395385.660	2.5	458594.860	2.5	158.4474	26.02	-0.84	116467.410	4.0	179579.830	5.0
158.2056	18.01	-2.94	168477.500	1.0	681686.700	0.0	158.4480	28.02	-3.53	418248.560	1.5	141415.300	1.0
158.2079	10.01	-3.03	139258.250	0.5	202467.140	1.5	158.4550	8.02	-0.85	78303.100	2.0	357111.000	2.0
158.2092	26.02	-2.39	249695.530	1.5	312903.480	2.5	158.4553	27.02	-2.26	294001.600	2.0	140492.400	4.5
158.2095	8.01	-4.36	82410.940	2.0	145618.390	2.0	158.4559	28.01	-1.60	77383.100	3.5	133857.730	0.5
158.2095	8.01	-3.23	211712.660	2.5	274920.000	1.5	158.4575	26.02	-3.46	70748.700	0.5	181830.020	3.0
158.2125	28.01	-3.84	211712.660	2.5	274920.000	2.5	158.4575	24.02	-0.16	118721.600	2.0	157908.000	4.0
158.2128	28.01	-2.26	70748.700	0.5	133954.850	0.5	158.4575	11.01	-2.62	94799.600	5.0	363500.000	1.0
158.2133	28.01	-3.31	67694.640	2.5	130900.650	2.5	158.4609	26.02	-3.83	300391.590	0.0	181828.660	2.0
158.2137	26.02	-2.27	58493.210	2.5	121699.020	1.5	158.4618	27.02	-0.55	118721.600	2.0	169595.900	3.5
158.2146	28.02	-2.60	124903.920	2.0	188109.580	3.0	158.4668	27.02	-0.82	106489.200	3.5	140225.800	3.5
158.2186	28.01	-4.16	75646.900	4.0	138852.200	3.0	158.4791	28.01	-3.16	77121.100	4.5	133735.260	2.5
158.2208	27.02	-1.67	53634.620	1.5	116838.330	1.5	158.4798	28.01	-4.85	70635.460	2.5	133734.980	3.5
158.2242	26.02	-0.62	105008.700	3.5	168211.500	4.5	158.4807	26.01	-4.74	70635.460	2.5	93487.710	3.5
158.2321	23.01	-0.68	116475.440	3.0	179676.890	2.0	158.4809	18.02	-1.40	30388.550	4.5	272250.900	3.0
158.2367	26.01	-2.90	2687.010	2.0	65885.300	2.0	158.4839	28.01	-3.25	209151.820	2.5	116732.510	2.5
158.2373	28.01	-3.57	8846.760	0.5	72043.210	1.5	158.4852	14.00	-1.77	53634.620	1.0	63097.360	1.0
158.2414	30.02	-2.91	70706.770	1.5	133903.000	1.5	158.4861	10.03	-3.34	0.000	0.0	642472.000	2.5
158.2419	23.01	-2.81	237506.800	1.0	300701.400	2.0	158.4869	27.02	-4.71	579375.000	2.5	110961.500	1.5
158.2427	26.02</												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
158.5895	23.02	-5.07	44110.040	2.5	107165.900	1.5
158.5907	8.02	-1.14	365550.600	1.0	428606.000	2.0
158.5947	25.01	-3.81	43696.190	3.0	106750.000	2.0
158.5958	14.00	-3.36	77.115	1.0	63130.490	1.0
158.5967	25.04	-1.18	184633.000	3.5	247686.000	3.5
158.5973	23.02	-1.65	42267.400	2.5	105320.180	1.5
158.5997	26.01	-0.76	21308.080	1.5	84359.900	1.5
158.6047	28.01	-4.67	32523.540	3.5	95573.390	3.5
158.6047	8.02	-0.65	365719.160	3.0	428769.000	3.0
158.6092	26.02	-2.65	79860.420	5.0	142908.480	5.0
158.6113	25.02	-3.64	86486.770	1.5	149533.980	1.5
158.6123	20.02	-1.19	214334.060	2.0	277380.860	2.0
158.6137	14.00	-1.24	77.115	1.0	63123.360	0.0
158.6209	30.02	-3.37	237642.700	3.0	300686.100	3.0
158.6242	12.02	.02	467378.500	1.0	530420.600	1.0
158.6248	15.00	-2.02	18722.650	.5	81764.500	1.5
158.6259	26.02	-1.90	123750.390	3.0	186791.780	2.0
158.6261	18.01	-0.70	143107.600	2.5	206148.940	3.5
158.6262	27.02	-1.26	106954.700	2.5	169996.000	1.5
158.6332	27.02	-0.66	106489.200	3.5	169527.700	4.5
158.6341	26.01	-6.68	20830.520	2.5	83868.650	2.5
158.6342	25.03	-1.14	131170.100	4.0	194208.200	3.0
158.6387	18.02	-2.03	209151.820	2.0	272188.160	2.0
158.6399	18.02	-3.15	204797.370	3.0	267833.200	4.0
158.6426	25.01	-4.72	30684.810	1.0	93719.600	0.0
158.6430	25.01	-4.11	43339.100	2.0	106373.700	2.0
158.6499	26.02	-4.62	121919.740	3.0	184951.620	3.0
158.6505	28.01	-4.68	70778.120	3.5	133809.760	3.5
158.6584	23.01	-3.24	2968.220	4.0	65996.700	3.0
158.6619	25.03	-2.80	112408.900	4.0	175436.000	3.0
158.6633	8.01	-4.10	211712.660	2.5	274739.200	2.5
158.6637	27.02	-3.56	108052.900	2.5	171079.300	3.5
158.6637	27.02	-3.56	108052.900	2.5	171079.300	3.5
158.6637	27.02	-3.90	108052.900	2.5	171079.300	3.5
158.6644	25.02	-4.29	86486.770	1.5	149512.900	1.5
158.6654	22.02	-3.16	14398.500	4.0	77424.200	3.0
158.6677	28.01	-1.35	56075.260	2.5	119100.060	1.5
158.6695	18.01	-2.10	147503.020	1.5	210527.100	2.5
158.6724	24.01	-7.55	11962.000	.5	74984.930	1.5
158.6735	27.02	-2.37	77622.900	4.5	140645.400	3.5
158.6738	25.02	-1.02	113078.340	1.5	176100.710	.5
158.6792	14.00	-1.12	77.115	1.0	63097.360	1.0
158.6868	27.01	-3.71	17771.500	3.0	80788.700	2.0
158.6885	15.00	-3.00	18747.500	1.5	81764.500	1.5
158.6891	14.00	-3.86	77.115	1.0	63093.410	2.0
158.6899	27.02	-2.80	83799.600	2.5	146815.600	3.5
158.6904	28.02	-3.31	76237.800	3.0	139253.410	2.0
158.6917	23.02	-0.86	42267.400	2.5	105282.650	2.5
158.6925	26.02	-1.41	137423.000	3.0	200437.940	2.0
158.6928	26.02	-1.81	123697.180	2.0	186712.020	1.0
158.6930	28.01	-3.91	68735.980	2.5	131750.730	3.5
158.6973	25.02	-4.10	86520.940	2.5	149533.980	1.5
158.6980	18.01	-2.09	143107.600	2.5	206120.350	2.5
158.7004	27.02	-2.91	83938.900	3.5	146950.700	2.5
158.7022	25.01	-4.03	43696.190	3.0	106707.300	4.0
158.7041	26.02	-4.97	121941.290	4.0	184951.620	3.0
158.7051	18.01	-1.40	147503.020	1.5	210512.980	1.5
158.7060	29.01	-2.61	72724.000	2.0	135733.600	3.0
158.7086	25.01	-5.98	27588.230	3.0	90596.800	2.0
158.7106	26.02	-1.27	136797.050	3.0	199804.810	4.0
158.7106	25.01	-6.70	27589.030	2.0	90596.800	2.0
158.7119	25.02	-0.14	113676.530	2.5	176683.760	2.5
158.7126	9.02	-4.80	395385.660	2.5	458392.610	1.5
158.7136	28.01	-0.98	51045.460	4.5	114052.040	3.5
158.7161	29.02	-3.42	63886.300	1.5	126891.900	2.5
158.7198	27.02	-2.55	73286.000	4.5	136290.100	3.5
158.7203	28.01	-0.71	52205.950	3.5	115209.850	3.5
158.7256	26.02	-2.09	84159.550	4.0	147161.360	4.0
158.7282	18.02	-1.96	209127.040	1.0	272127.820	1.0
158.7307	27.02	-1.63	77383.100	3.5	140382.900	3.5
158.7389	26.02	-3.25	97041.380	3.0	160037.900	2.0
158.7400	28.01	-1.52	73903.250	.5	136899.330	1.5
158.7406	18.01	-2.81	143107.600	2.5	206103.450	1.5
158.7407	23.01	.08	3162.800	5.0	66158.600	4.0
158.7419	18.01	-4.33	139258.250	.5	202253.590	1.5
158.7423	26.02	-1.22	79860.420	5.0	142855.590	4.0
158.7430	28.01	-1.26	74283.300	.5	137278.220	1.5
158.7440	28.01	-0.75	55299.650	4.5	118294.170	3.5
158.7476	28.01	-1.77	58705.950	1.5	121699.020	1.5
158.7504	25.02	-3.97	86520.940	2.5	149512.900	1.5
158.7561	24.02	-1.08	96385.900	2.0	159375.600	3.0
158.7564	27.01	-4.39	4950.000	2.0	67939.600	2.0
158.7577	11.01	-3.12	300510.920	1.0	363500.000	1.0
158.7632	8.02	-0.55	365619.120	2.0	428606.000	2.0
158.7686	18.02	-4.47	204797.370	3.0	267782.100	3.0
158.7711	29.01	-2.38	73353.120	2.0	136336.880	1.0
158.7762	14.00	-2.00	223.157	2.0	63204.890	2.0
158.7767	23.01	-6.76	2808.760	3.0	65790.280	4.0
158.7770	25.02	-0.93	114287.910	2.5	177269.340	1.5
158.7843	28.01	-1.08	70635.460	2.5	133613.990	1.5
158.7874	28.01	-2.04	74300.930	1.5	137278.220	1.5
158.7907	18.02	-4.00	209151.820	2.0	272127.820	1.0
158.7989	8.02	-0.92	293865.260	1.0	356838.000	1.0
158.8027	8.02	-1.01	365515.760	0.0	428487.000	1.0
158.8038	28.02	-3.48	53703.700	5.0	116674.500	4.0
158.8194	25.02	-0.67	113676.530	2.5	176641.140	3.5
158.8199	28.01	-1.05	57080.550	3.5	120044.950	4.5
158.8207	26.02	-1.52	84671.870	3.0	147635.950	3.0
158.8218	23.02	-3.45	28746.800	2.5	91710.430	3.5
158.8267	18.01	-1.30	147503.020	1.5	210464.710	2.5
158.8273	18.02	-2.08	209166.350	0.0	272127.820	1.0
158.8278	26.02	-0.80	137423.000	3.0	200384.280	3.0
158.8288	26.01	-0.92	3117.480	1.5	66078.340	2.5
158.8290	26.02	-4.29	118867.870	1.0	181826.660	2.0
158.8325	26.01	-2.33	1872.600	4.5	64832.000	4.5
158.8340	24.01	-9.13	11962.000	.5	74920.800	.5
158.8348	24.02	-3.84	65890.900	3.0	128849.400	4.0
158.8382	28.01	-4.07	70778.120	3.5	133735.260	2.5
158.8389	28.01	-2.93	70778.120	3.5	133734.980	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
158.8416	27.02	-2.97	47415.400	2.5	110371.200	2.5
158.8454	25.01	-4.47	43311.000	1.0	106265.300	1.0
158.8507	24.01	-7.74	12032.720	1.5	74984.930	1.5
158.8532	28.02	-4.03	71383.700	2.0	134334.900	3.0
158.8557	29.02	-1.57	63143.600	2.5	126093.800	3.5
158.8588	23.02	-1.13	42371.200	1.5	105320.180	1.5
158.8598	28.02	-4.08	54657.900	4.0	117606.500	2.0
158.8638	22.02	-4.54	14052.700	0.0	76999.700	1.0
158.8643	27.02	-0.59	77411.600	5.5	140358.400	4.5
158.8686	26.01	-3.89	0.000	4.5	62945.120	3.5
158.8696	26.02	-2.00	73849.100	1.0	136793.820	2.0
158.8713	28.01	-1.01	56371.410	3.5	119315.440	2.5
158.8745	26.02	-1.10	84671.870	3.0	147614.650	2.0
158.8779	18.02	-1.49	209127.040	1.0	272068.450	1.0
158.8817	27.01	-3.35	18031.500	2.0	80971.400	1.0
158.8817	27.02	-2.29	76791.100	1.5	139731.000	.5
158.8873	24.02	.29	95304.100	6.0	158241.800	5.0
158.8890	28.01	-3.64	70778.120	3.5	133715.130	4.5
158.8893	28.02	-3.44	75123.800	5.0	138060.700	5.0
158.8906	8.02	-0.66	365550.600	1.0	428487.000	1.0
158.9007	28.02	-1.66	78482.900	1.0	141415.300	1.0
158.9052	25.03	-2.59	112882.800	5.0	175813.400	4.0
158.9089	26.02	-7.70	19404.800	2.0	82333.920	3.0
158.9103	28.01	-1.03	74283.330	.5	137211.930	.5
158.9163	25.01	-4.64	43339.100	2.0	106265.300	1.0
158.9173	14.00	-1.43	0.000	0.0	62925.800	1.0
158.9236	18.01	-1.30	145668.800	1.5	208592.110	.5
158.9242	28.01	.73	71457.740	3.5	134380.820	3.5
158.9245	18.01	-0.61	145668.800	1.5	208591.780	1.5
158.9256	8.02	-0.07	365846.460	4.0	428769.000	3.0
158.9261	28.01	-1.07	57080.550	3.5	120002.860	3.5
158.9269	26.04	-1.27	195212.000	2.0	258134.000	2.0
158.9279	13.03	-1.16	619947.700	0.0	682869.300	1.0
158.9310	27.02	-2.10	105965.100	2.5	168885.500	1.5
158.9369	18.01	-1.88	142186.270	4.5	205104.320	4.5
158.9403	28.02	-3.75	83033.800	2.0	145950.500	1.0
158.9405	18.02	-1.27	209151.820	2.0	272068.450	1.0
158.9465	18.01	-0.15	142186.270	4.5	205100.530	5.5
158.9470	28.01	-0.23	52205.950	3.5	115120.000	2.5
158.9536	23.02	-1.91	42371.200	1.5	105282.650	2.5
158.9547	2					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
159.1105	28.02	-3.90	71383.700	2.0	134233.100	2.0	159.3684	26.01	-1.69	58493.210	2.5	121240.900	3.5
159.1123	14.00	-1.85	77.115	1.0	62925.800	1.0	159.3686	25.02	-4.42	86486.770	1.5	149234.400	2.5
159.1149	25.01	-2.86	9472.970	2.0	72320.620	1.0	159.3698	28.01	-1.45	53037.930	2.5	151785.060	1.5
159.1180	25.01	-3.37	31022.050	0.0	93868.500	1.0	159.3700	26.02	-3.22	119697.640	2.0	182444.700	3.0
159.1191	10.03	-3.53	579626.000	1.5	642472.000	2.5	159.3718	28.01	-2.22	68154.310	1.5	130900.650	2.5
159.1243	14.00	-3.53	77.115	1.0	62921.080	2.0	159.3743	26.02	-2.22	116937.570	1.0	179682.940	1.0
159.1264	23.01	-3.60	13542.680	3.0	76385.800	3.0	159.3752	29.02	-3.38	60804.900	4.5	123549.900	4.5
159.1275	27.02	-1.60	77383.100	3.5	140225.800	3.5	159.3803	26.04	-1.38	195942.000	3.0	258685.000	3.0
159.1298	27.01	-1.90	950.300	3.0	63792.100	4.0	159.3848	29.01	-2.21	73595.640	1.0	136336.880	1.0
159.1339	25.02	-3.36	113078.340	1.5	175918.500	3.5	159.3875	26.02	-1.45	116467.410	4.0	179207.570	5.0
159.1351	26.02	-3.62	137544.600	2.0	200384.280	3.0	159.3897	26.02	-3.83	116937.570	1.0	179676.890	2.0
159.1368	10.03	-4.08	580095.000	3.5	642934.000	3.5	159.3897	27.02	-1.20	77472.300	2.5	140211.600	2.5
159.1421	24.01	-9.13	12148.000	2.5	74984.930	1.5	159.3936	26.01	-3.24	33501.320	3.5	96239.100	4.5
159.1434	8.02	-4.47	294001.600	2.0	356838.000	1.0	159.3949	26.02	-4.02	73727.640	2.0	136464.900	1.0
159.1442	27.02	-3.58	76791.100	1.5	139627.200	1.5	159.3953	28.01	-2.81	70706.770	1.5	133443.890	2.5
159.1499	25.01	-2.61	9472.970	2.0	72306.810	2.0	159.3966	28.02	-3.90	118745.700	3.0	181482.300	4.0
159.1501	28.01	-4.84	53634.620	1.5	116468.400	1.5	159.3974	13.03	-5.53	624720.500	1.0	687456.800	1.0
159.1526	28.01	-2.22	57080.550	3.5	119913.330	4.5	159.3976	25.02	-6.65	114209.010	3.5	176945.200	4.5
159.1548	25.02	-8.84	116851.690	3.5	179683.610	4.5	159.3977	14.00	-2.92	77.115	1.0	62813.260	1.0
159.1571	27.02	-2.15	106764.900	4.5	169595.900	3.5	159.3994	27.02	-3.05	77622.900	4.5	140358.400	4.5
159.1571	24.04	-2.29	167497.000	2.0	230328.000	3.0	159.4004	27.01	-5.19	5204.500	1.0	67939.600	2.0
159.1581	28.01	-3.91	68965.650	1.5	131796.260	2.5	159.4017	28.01	-1.89	58493.210	2.5	121227.800	2.5
159.1606	25.01	-4.02	43696.190	3.0	106525.800	3.0	159.4080	18.01	-1.91	143371.350	1.5	206103.450	1.5
159.1609	28.01	-1.37	73903.250	5	136732.740	1.5	159.4096	26.02	-2.42	84159.550	4.0	146891.040	3.0
159.1634	27.02	-4.45	77383.100	3.5	140211.600	2.5	159.4145	23.01	-4.46	13490.840	2.0	76220.400	2.0
159.1713	27.02	-3.94	107530.100	3.5	170355.500	2.5	159.4145	14.00	-2.65	77.115	1.0	62806.650	0.0
159.1731	28.01	-1.56	58493.210	2.5	121317.890	3.5	159.4179	27.01	-3.22	18338.500	1.0	81066.700	0.0
159.1756	27.02	-2.94	110371.200	2.5	173194.900	2.5	159.4189	27.02	-3.39	77472.300	2.5	140200.100	1.5
159.1756	27.02	-2.94	110371.200	2.5	173194.900	2.5	159.4215	26.02	-1.06	116467.410	4.0	179194.220	4.0
159.1756	27.02	-8.87	110371.200	2.5	173194.900	2.5	159.4221	28.01	-4.43	66571.340	2.5	129297.910	3.5
159.1773	9.01	-4.14	215069.590	2.0	277892.610	3.0	159.4278	17.03	-3.38	252396.700	2.0	315121.000	1.0
159.1789	27.02	-2.38	71873.700	5.5	134696.100	5.5	159.4286	28.01	-1.07	57420.160	2.5	120144.170	2.5
159.1790	26.02	-3.66	69836.830	3.0	132659.170	4.0	159.4291	27.02	-1.67	105965.100	2.5	168688.900	2.5
159.1797	28.01	-3.22	73903.250	4.5	136725.330	5	159.4294	26.02	-3.41	76956.790	3.0	139680.470	3.0
159.1798	23.01	-5.58	2968.220	4.0	65790.280	4.0	159.4307	28.01	-4.90	66571.340	2.5	129294.510	2.5
159.1801	26.02	-2.24	116937.570	1.0	179759.490	2.0	159.4342	25.02	-2.29	71564.210	1.5	134286.000	5
159.1809	24.02	-2.27	66027.800	4.0	128849.400	4.0	159.4419	26.02	-2.10	116475.440	3.0	179194.220	4.0
159.1815	24.01	-5.59	12032.720	1.5	74854.080	5	159.4494	26.02	-1.76	123552.950	1.0	186268.790	2.0
159.1933	25.02	-6.69	112057.800	3.5	174874.500	4.5	159.4520	28.01	-3.89	66579.710	1.5	129294.510	2.5
159.1939	18.01	-1.74	132481.140	2.5	195297.610	1.5	159.4537	25.02	-1.00	113676.530	2.5	176390.670	4.5
159.1961	27.02	-1.22	106954.700	2.5	169770.300	2.5	159.4554	25.02	-3.89	86520.940	2.5	149234.400	2.5
159.2021	14.00	-2.79	0.000	0.0	62813.260	1.0	159.4566	14.00	-6.62	223.157	2.0	62936.140	3.0
159.2051	28.01	-1.36	54762.630	3.5	117074.700	3.5	159.4610	26.02	-2.66	119697.640	2.0	182408.910	3.0
159.2078	28.01	-0.72	70358.940	4.5	133169.920	3.5	159.4611	26.02	-2.22	116467.410	4.0	179178.620	3.0
159.2108	18.01	-2.24	142186.270	4.5	204996.090	3.5	159.4660	25.03	-1.17	131170.100	4.0	193879.400	5.0
159.2123	9.01	-3.90	207699.070	1.0	270508.290	2.0	159.4662	28.02	-3.60	55406.100	3.0	118115.300	2.0
159.2129	10.03	-2.62	579375.000	2.5	642184.000	1.5	159.4667	18.01	-3.62	147875.860	2.5	210584.880	1.5
159.2143	28.01	-1.64	70635.460	2.5	133443.890	2.5	159.4675	23.01	-8.82	13511.710	1.0	76220.400	2.0
159.2150	26.02	-4.11	117068.560	3.0	179876.710	4.0	159.4696	26.02	-2.59	116975.050	2.0	179682.940	1.0
159.2162	26.02	-3.98	76956.790	3.0	139764.800	2.0	159.4704	28.01	-1.23	51045.460	4.5	113753.040	4.5
159.2167	30.02	-4.07	233610.400	2.0	296417.900	1.0	159.4739	24.02	-2.42	97097.100	4.0	159803.300	4.0
159.2194	25.02	-1.64	71831.980	2.5	134638.390	1.5	159.4799	18.01	-1.68	132327.280	3.5	195031.120	2.5
159.2235	26.02	-2.80	73727.640	2.0	136532.450	2.0	159.4815	26.02	-4.62	116475.440	3.0	179178.620	3.0
159.2332	18.01	-4.31	132327.280	3.5	195128.270	4.5	159.4829	14.00	-4.16	223.157	2.0	62925.800	1.0
159.2364	12.02	-1.19	467378.500	1.0	530178.200	2.0	159.4850	26.02	-2.08	116975.050	2.0	179676.890	2.0
159.2417	26.02	-2.08	137527.920	4.0	200325.560	4.0	159.4887	28.01	-4.29	66571.340	2.5	129271.720	3.5
159.2419	26.01	-4.75	667.640	2.5	63465.190	1.5	159.4911	23.01	-5.54	16340.970	3.0	79040.400	3.0
159.2424	14.00	-5.59	77.115	1.0	62874.480	2.0	159.4922	27.02	-2.46	107297.000	1.5	169996.000	1.5
159.2501	28.01	-8.86	52205.950	3.5	115000.230	3.5	159.4949	14.00	-5.54	223.157	2.0	62921.080	2.0
159.2516	28.02	-2.34	55952.000	2.0	118745.700	3.0	159.4957	27.02	-9.99	77121.100	4.5	139818.700	3.5
159.2580	25.03	-3.35	130969.500	3.0	193760.700	4.0	159.4974	26.01	-5.46	862.630	1.5	63559.560	5
159.2583	23.01	-8.87	13594.730	2.0	76385.800	3.0	159.5026	26.02	-2.94	119697.640	2.0	182392.550	2.0
159.2642	26.02	-3.69	119697.640	2.0	182486.400	1.0	159.5069	25.03	-9.02	131462.500	5.0	194155.700	6.0
159.2651	26.01	-3.50	20516.980	2.5	83305.370	3.5	159.5073	9.02	-4.68	390077.800	2.5	452770.850	3.5
159.2655	25.02	-3.37	113676.530	2.5	176464.780	3.5	159.5093	25.02	-9.94	111883.600	2.5	174575.870	3.5
159.2660	28.01	-1.44	68154.310	1.5	130942.360	1.5	159.5096	26.02	-2.41	117068.560	3.0	179760.720	3.0
159.2661	28.01	-3.53	68154.310	1.5	130942.360	1.5	159.5100	11.05	-6.67	1005068.000	1.0	1067760.000	1.0
159.2670	25.00	-6.82	0.000	2.5	62787.630	1.5	159.5127	26.02	-3.79	117068.560	3.0	179759.490	2.0
159.2720	26.02	-2.27	116975.050	2.0	179760.720	3.0	159.5146	28.01	-3.80	68965.650	1.5	131655.830	5
159.2743	16.00	-2.92	9237.760	2.0	72022.545	2.0	159.5166	26.02	-4.00	117068.560	3.0	179757.980	4.0
159.2744	26.02	-6.65	116898.220	2.0	179682.940	1.0	159.5172	26.02	-2.82	77075.300	1.0	139764.480	2.0
159.2751	26.02	-3.53	116975.050	2.0	179759.490	2.0	159.5193	20.02	-2.54	214334.060	2.0	277022.400	3.0
159.2786	26.02	-2.67	119697.640	2.0	182480.720	2.0	159.5225	27.02	-3.82	107507.600	5	170194.700	5
159.2810	24.01	-8.03	21822.860	2.5	84604.990	2.5	159.5240	25.01	-4.03	38901.800	4.0	101588.300	3.0
159.2839	27.01	-9.72	19189.900	4.0	81970.900	5.0	159.5242	26.02	-3.11	116975.050	2.0	179661.480	3.0
159.2860	24.01	-6.99	21824.820	1.5	84604.990	2.5	159.5266	26.01	-4.01	31387.980	2.5	94073.460	3.5
159.2889	25.04	-1.14	183528.000	2.5	246307.000	3.5	159.5270	24.01	-6.39	12032.720	1.5	74718.050	1.5
159.2898	26.02	-1.14	1168										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
159.5919	28.01	-0.90	74300.930	1.5	136960.750	2.5
159.5963	29.01	-3.26	73101.870	1.0	135759.970	2.0
159.5986	17.02	-4.98	146525.600	1.5	209182.800	1.5
159.5997	26.02	-1.09	122346.610	3.0	185003.350	2.0
159.6012	25.02	-3.72	86578.240	3.5	149234.400	2.5
159.6023	26.02	-1.96	82382.870	3.0	145038.610	3.0
159.6038	26.01	-4.69	13474.430	2.5	76129.580	1.5
159.6056	15.00	-3.40	18747.950	1.5	81402.400	2.5
159.6135	14.00	-2.41	223.157	2.0	62874.480	2.0
159.6137	25.01	-3.10	44521.520	4.0	107172.800	3.0
159.6138	18.01	-2.44	147875.860	2.5	210527.100	2.5
159.6151	18.01	-1.58	132630.650	1.5	195281.380	.5
159.6207	25.02	-2.23	116580.170	1.5	179228.690	1.5
159.6225	27.02	-3.50	110961.500	1.5	173609.300	1.5
159.6225	27.02	-3.50	110961.500	1.5	173609.300	1.5
159.6225	27.02	-3.50	110961.500	1.5	173609.300	1.5
159.6234	25.02	-1.12	116692.140	2.5	179339.590	2.5
159.6274	24.02	-1.63	96385.900	2.0	159031.800	2.0
159.6317	23.01	-1.56	13741.610	3.0	76385.800	3.0
159.6393	27.02	-2.97	106954.700	2.5	169595.900	3.5
159.6399	10.01	-1.56	251011.180	2.5	313652.170	1.5
159.6497	18.01	-2.45	147875.860	2.5	210512.980	1.5
159.6508	27.01	-1.69	950.300	3.0	63587.000	3.0
159.6575	23.02	-4.61	98383.530	2.5	161017.600	3.5
159.6576	28.01	-4.10	68131.210	3.5	130765.260	3.5
159.6605	27.01	-2.87	18338.500	1.0	80971.400	1.0
159.6637	26.02	-1.94	137763.700	5.0	200395.330	5.0
159.6666	26.02	-4.83	120826.170	2.0	183456.690	3.0
159.6684	27.01	-8.70	22414.500	3.0	85044.300	3.0
159.6710	25.01	-4.51	43850.420	2.0	106479.200	1.0
159.6716	26.02	-2.58	123750.390	3.0	186378.940	4.0
159.6738	26.02	-3.55	82410.940	2.0	145038.610	3.0
159.6743	23.01	-4.57	3162.800	5.0	65790.280	4.0
159.6747	25.01	-7.91	29889.310	3.0	92516.650	4.0
159.6751	28.01	-3.56	53634.620	1.5	116261.810	.5
159.6763	24.02	-1.31	66222.700	5.0	128849.400	4.0
159.6789	23.01	-1.57	13594.730	2.0	76220.400	2.0
159.6836	26.01	-4.38	31364.470	1.5	93988.300	2.5
159.6873	28.01	-2.03	58493.210	2.5	121115.590	1.5
159.6931	27.01	-4.87	5204.500	1.0	67824.600	2.0
159.6937	25.02	.30	117063.740	4.5	179683.610	4.5
159.6962	23.01	-1.76	16421.510	4.0	79040.400	3.0
159.6970	27.02	-2.24	76518.900	5.5	139137.500	5.5
159.7041	26.02	-2.71	73849.100	1.0	136464.900	1.0
159.7061	25.04	-4.45	183528.000	2.5	246143.000	1.5
159.7077	28.02	-1.65	76237.800	3.0	138852.200	3.0
159.7110	28.02	-3.09	78303.100	2.0	140916.200	2.0
159.7118	27.02	-2.16	72083.300	4.5	134696.100	5.5
159.7185	28.01	-3.89	54176.260	.5	116786.420	.5
159.7232	26.02	-4.72	117068.560	3.0	179676.890	2.0
159.7284	26.02	-2.38	123697.180	2.0	186303.440	3.0
159.7307	26.01	-6.14	667.640	2.5	63273.030	2.5
159.7316	26.02	-3.77	122346.610	3.0	184951.620	3.0
159.7370	27.02	-1.09	77622.900	4.5	140225.800	3.5
159.7379	26.01	-5.85	862.630	1.5	63465.190	1.5
159.7395	18.01	-1.81	147875.860	2.5	210477.770	3.5
159.7408	26.02	-2.66	138054.590	5.0	200656.020	6.0
159.7419	29.02	-4.88	63143.600	2.5	125744.600	1.5
159.7436	26.01	-4.88	31387.980	2.5	93988.300	2.5
159.7461	28.01	-4.79	68131.210	3.5	130730.530	2.5
159.7485	28.01	-1.05	74300.930	1.5	136899.330	1.5
159.7522	26.02	-8.06	19404.800	2.0	82001.730	2.0
159.7548	25.02	-2.65	133086.570	4.5	195682.500	5.5
159.7554	26.01	-3.39	33466.500	4.5	96062.180	5.5
159.7570	26.02	-1.02	137209.730	4.0	199804.810	4.0
159.7604	25.02	-4.09	113676.530	2.5	176270.250	2.5
159.7620	28.02	-2.27	54657.900	4.0	117251.000	3.0
159.7625	26.02	-4.16	117068.560	3.0	179661.480	3.0
159.7684	25.03	-1.70	131170.100	4.0	193760.700	4.0
159.7693	26.01	-4.46	31483.200	3.5	94073.460	3.5
159.7697	14.00	-2.69	223.157	2.0	62813.260	1.0
159.7718	25.02	-4.45	113676.530	2.5	176265.780	1.5
159.7721	14.00	-1.90	77.115	1.0	62666.250	1.0
159.7727	27.02	-2.85	73540.200	3.5	136129.100	2.5
159.7729	18.01	-1.69	147875.860	2.5	210464.710	2.5
159.7730	25.02	-4.32	114094.970	1.5	176683.760	2.5
159.7811	26.02	-3.45	82382.870	3.0	144968.500	4.0
159.7834	28.01	-2.69	57080.550	3.5	119665.290	2.5
159.7886	28.01	-1.16	57420.160	2.5	120002.860	3.5
159.7890	26.01	-5.75	977.030	.5	63559.560	.5
159.7901	28.02	-2.15	78303.100	2.0	140885.200	1.0
159.7962	14.00	-1.33	223.157	2.0	62802.860	3.0
159.8002	15.00	-2.86	18722.650	.5	81300.800	1.5
159.8005	26.02	-3.31	77102.430	2.0	139680.470	3.0
159.8051	28.01	-3.31	68154.310	1.5	130730.530	2.5
159.8059	21.02	-1.25	0.000	1.5	62575.900	1.5
159.8064	28.01	-2.27	57080.550	3.5	119654.250	3.5
159.8144	23.02	-4.84	99941.200	3.5	162513.800	4.5
159.8169	26.02	-2.52	123697.180	2.0	186268.790	2.0
159.8181	18.01	-1.42	147875.860	2.5	210447.010	3.5
159.8197	28.01	-2.92	54262.630	3.5	116833.150	4.5
159.8209	24.01	-5.71	12148.000	2.5	74718.050	1.5
159.8215	26.02	-1.62	125443.580	4.0	188013.400	4.0
159.8231	25.01	-3.39	31661.720	3.0	94230.900	2.0
159.8231	18.02	-1.66	209127.040	1.0	271696.220	0.0
159.8236	30.02	-4.31	234384.000	3.0	296953.000	2.0
159.8249	26.01	-5.23	7955.240	3.5	70523.730	3.5
159.8261	27.02	-0.94	111283.100	.5	173851.100	.5
159.8376	27.02	-2.68	73726.600	2.5	136290.100	3.5
159.8402	29.01	-1.38	73101.870	1.0	135664.340	1.0
159.8409	26.02	-1.96	117068.560	3.0	179630.770	4.0
159.8418	26.02	-3.28	137763.700	5.0	200325.560	4.0
159.8451	26.01	-2.99	21308.080	1.5	83868.650	2.5
159.8455	9.02	-3.06	390210.430	3.5	452770.850	3.5
159.8457	26.01	-6.48	384.770	3.5	62945.120	3.5
159.8465	18.01	-1.89	132737.610	.5	195297.610	1.5
159.8489	27.01	-1.44	950.300	3.0	63509.370	4.0
159.8504	30.02	-0.38	78096.300	3.0	140654.800	3.0
159.8517	10.03	-4.96	579626.000	1.5	642184.000	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
159.8546	28.01	-2.89	53634.620	1.5	116191.470	2.5
159.8554	28.01	-3.15	68154.310	1.5	130710.850	.5
159.8560	25.02	-1.36	111776.600	1.5	174332.910	1.5
159.8575	18.01	-0.63	132327.280	3.5	194883.000	3.5
159.8599	23.02	-1.08	91710.430	3.5	154265.200	3.5
159.8611	28.01	-0.21	53037.930	2.5	115594.250	1.5
159.8643	26.02	-2.85	123750.390	3.0	186303.440	3.0
159.8645	25.02	-0.99	111883.600	2.5	174436.590	2.5
159.8648	15.00	-2.69	18747.950	1.5	81300.800	1.5
159.8722	18.01	-0.78	132481.140	2.5	195031.120	2.5
159.8776	26.01	-6.99	21812.040	1.5	84359.900	1.5
159.8829	26.02	-5.01	20300.800	5.0	82846.590	4.0
159.8848	18.02	-1.69	209127.040	1.0	271672.080	1.0
159.8849	11.05	.08	1005713.000	2.0	1068258.000	3.0
159.8880	18.01	-1.58	132737.610	.5	195281.380	.5
159.8935	28.01	-4.55	67694.640	2.5	130236.260	2.5
159.8954	26.02	-1.66	134360.400	4.0	196901.270	5.0
159.9025	9.02	-5.00	390210.430	3.5	452748.540	2.5
159.9046	30.02	-3.33	234384.000	3.0	296921.300	3.0
159.9052	28.01	-3.99	68154.310	1.5	130691.350	1.5
159.9065	25.02	-0.72	116692.140	2.5	179226.690	1.5
159.9130	26.04	-0.55	195212.000	2.0	257746.000	1.0
159.9130	18.01	-2.06	132327.280	3.5	194861.270	2.5
159.9148	30.02	.25	190341.300	4.0	252874.600	3.0
159.9152	25.02	.24	110036.140	.5	172569.270	1.5
159.9152	28.01	-1.80	53634.620	1.5	116167.760	1.5
159.9165	25.02	-0.69	113676.530	2.5	176209.150	1.5
159.9259	26.02	-2.83	73935.960	0.0	136464.900	1.0
159.9282	28.01	-1.78	53037.930	2.5	115565.980	2.5
159.9291	27.01	-2.27	17771.500	3.0	80299.200	4.0
159.9409	27.02	-4.28	76791.100	1.5	139314.200	.5
159.9441	28.01	-1.61	58705.950	1.5	121227.800	2.5
159.9460	26.02	-2.37	84369.920	2.0	146891.040	3.0
159.9476	25.01	-4.37	31661.720	3.0	94182.200	3.0
159.9482	18.02	-1.56	209151.820	2.0	271672.080	1.0
159.9490	9.01	-1.73	202449.350	1.0	264969.270	2.0
159.9529	26.02	-3.85	123750.390	3.0	186268.790	2.0
159.9535	28.01	-4.36	32499.530	4.5	95017.710	4.5
159.9538	25.02	-0.95	112057.800	3.5	174575.870	3.5
159.9548	28.01	-1.20	54557.050	4.5	117074.700	3.5
159.9578	17.02	-3.71	146525.600	1.5	209042.100	.5
159.9601	28.01	.37	71457.740	3.5	133973.330	2.5
159.9607	18.01	-1.53	132481.140	2.5	194996.490	1.5
159.9639	13.02	-1.25	115956.210	2.5	178470.320	1.5
159.9695	10.01	-3.07	276276.850	1.5	338788.760	.5
159.9697	13.02	-2.20	115958.500	1.5	178470.320	1.5
159.9711	27.01	-2.56	18031.500	2.0	80542.800	3.0
159.9769	9.02	-4.93	390834.600	2.5	433343.620	2.5
159.9780	9.01	-1.50	202460.690	2.0	264969.270	2.0
159.9790	26.02	-3.66	73727.640	2.0	136335.840	1.0
159.9853	18.02	-1.66	209166.350	0.0	271672.080	1.0
159.9865	25.00	-5.05	0.000	2.5	62505.290	3.5
159.9881	26.02	-3.19	125637.980	3.0	188142.640	2.0
159.9894	26.02	-2.94	119982.260	1.0	182486.400	1.0
159.9898	26.04	-1.82	196845.000	4.0	259349.000	4.0
159.9956	28.01	-4.97	25036.380	2.5	87538.090	3.5
160.0012	26.01	-.56	20805.830	4.5	83305.370	3.5
160.0020	17.03	-3.73	251725.800	1.0	314225.000	2.0
160.0039	26.02	-4.50	119982.260	1.0	182480.720	2.0
160.0043	9.02	-1.87	380250.520	2.5	442748.850	2.5
160.0081	10.01	-1.99	251522.120	1.5	314018.940	.5
160.0105	30.02	-4.99	238205.500	1.0	300701.400	2.0
160.0133	18.01	-1.48	132327.280	3.5	194822.100	3.5
160.0192	29.02	.19	62065.000	3.5	124557.500	3.5
160.0203	26.02	-2.19	137209.730	4.0	199701.820	3.0
160.0215	30.02	-4.52	234384.000	3.0	296875.600	2.0
160.0267	28.01	-.96	57420.160	2.5	119909.720	1.5
160.0269	26.02	-2.07	84671.870	3.0	147161.360	4.0
160.0281	9.01	-1.36	202480.260	3.0	264969.270	2.0
160.0297	28.02	-1.47	53703.700	5.0	116192.100	4.0
160.0297	27.02	-4.17	107507.600	.5	169996.000	1.5
160.0303	26.01	-5.96	977.030	.5	63465.190	1.5
160.0310	25.02	-0.55	116851.690	3.5	179339.590	2.5
160.0324	25.00	-3.93	0.000	2.5	62487.360	2.5
160.0357	25.02	-1.64	114209.010	3.5	176695.060	4.5
160.0397	27.02	-2.22	105965.100	2.5	168449.600	3.5
160.0401	18.01	-2.73	149179.170	3.5	211663.500	3.5
160.0410	5.00	-1.42	0.000	.5	62484.000	1.5
160.0501	20.01	-1.70	25191.510	.5	87671.930	1.5
160.0507	25.03	.32	137853.000	4.0	200333.200	3.0
160.0543	23.01	-.78	13741.610	3.0	76220.400	2.0
160.0623	26.02	-2.76	139680.470	3.0	202156.130	2.0
160.0642	13.02	-1.50	115958.500	1.5	178433.440	.5
160.0644	26.01	-8.40	20830.520	2.5	83305.370	3.5
160.0647	25.02	-3.05	114209.010	3.5	176683.760	2.5
160.0684	27.02	-2.96	107297.000	1.5	169770.300	2.5
160.0694	18.01	.05	132327.280	3.5	194800.180	4.5
160.0705	26.02	-2.19	73727.640	2.0	136200.130	3.0
160.0727	26.02	-1.88	125637.980	3.0	188109.580	3.0
160.0742	25.02	-1.95	111776.600	1.5	174247.630	.5
160.0769	25.01	-4.34	31760.930	2.0	94230.900	2.0
160.0771	28.01	-4.89	54262.630	3.5	116732.510	2.5
160.0773	26.02	-2.53	125672.830	2.0	188142.640	2.0
160.0798	25.02	-1.04	114501.180	4.5	176970.010	5.5
160.0798	5.00	-1.17	15.150	1.5	62484.000	2.5
160.0798	5.00	-2.12	15.150	1.5	62484.000	1.5
160.0818	6.00	-1.42	21648.010	0.0	84116.090	1.0
160.0851	18.02	-2.37	180679.000	1.0	243145.760	2.0
160.0863	30.02	-.29	83500.300	2.0	145966.600	3.0
160.0882	28.01	-3.33	74300.930	1.5	136766.490	2.5
160.0975	28.01	-2.90	53365.170	4.5	115872.120	3.5
160.1026	25.02	-2.45	118692.140	2.5	179152.090	3.5
160.1054	26.02	-3.29	125672.830	2.0	188131.700	1.0
160.1118	26.01	-3.53	13673.210	1.5	76129.580	1.5
160.1123	26.02	-4.46	139463.360	5.0	201919.530	4.0
160.1125	28.02	-1.90	71383.700	2.0	133839.800	1.0
160.1173	26.02	-2.33	96921.400	2.0	159375.600	3.0
160.1202	29.01	-1.88	71531.500	3.0	133984.600	3.0
160.1204	26.02	-.74	89084.790	3.0	151537.800	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
160.1207	26.02	-4.66	66464.640	3.0	128917.510	2.0	160.3276	25.01	-4.81	44521.520	4.0	106893.800	5.0
160.1239	26.02	-2.48	97041.380	3.0	159493.000	3.0	160.3284	24.04	.13	167184.000	1.0	229556.000	2.0
160.1239	28.01	-.58	67880.160	2.5	130331.780	1.5	160.3293	26.02	-3.31	117521.910	4.0	179893.560	5.0
160.1242	24.01	-5.72	12032.720	1.5	74484.250	2.5	160.3335	29.02	-2.56	85446.400	1.5	147816.400	1.5
160.1261	9.01	-3.37	215069.590	2.0	277520.380	1.0	160.3405	9.02	-6.56	390976.350	1.5	453343.620	2.5
160.1276	27.01	-2.98	18338.500	1.0	80788.700	2.0	160.3406	28.01	-1.48	13550.390	3.5	75917.630	3.5
160.1278	26.02	-.69	89084.790	3.0	151534.900	2.0	160.3409	25.01	-6.71	27583.300	4.0	89950.400	3.0
160.1296	28.01	-1.45	74283.330	.5	136732.740	1.5	160.3442	18.01	-.79	132630.650	1.5	194996.490	1.5
160.1298	26.02	.16	89084.790	3.0	151534.900	2.0	160.3469	24.02	-2.84	95304.100	6.0	157668.900	6.0
160.1299	25.02	-1.59	111883.600	2.5	174332.910	1.5	160.3471	26.02	-3.66	20481.900	4.0	82846.590	4.0
160.1323	26.02	-4.99	121008.780	3.0	183457.150	4.0	160.3536	25.01	-6.01	27588.230	3.0	89950.400	3.0
160.1327	9.01	-4.45	215069.590	2.0	277517.800	3.0	160.3539	18.01	-2.49	142717.020	3.5	205079.070	2.5
160.1335	26.02	-3.82	121008.780	3.0	183456.690	3.0	160.3557	25.01	-7.24	27589.030	2.0	89950.400	3.0
160.1358	10.03	-2.32	579737.000	.5	642184.000	1.5	160.3584	27.02	-3.32	77383.100	3.5	139743.400	2.5
160.1419	24.02	-2.40	97358.700	4.0	159803.300	4.0	160.3584	25.03	.39	137930.100	5.0	200290.400	4.0
160.1433	9.02	-3.00	380250.520	2.5	442694.580	1.5	160.3599	25.02	-.20	111883.600	2.5	174243.330	3.5
160.1434	25.02	.04	114501.180	4.5	176945.200	4.5	160.3605	26.01	-4.76	7955.240	3.5	70314.740	4.5
160.1455	25.02	-.98	132971.990	3.5	195415.200	4.5	160.3658	25.02	-2.30	110398.500	2.5	172759.950	3.5
160.1458	14.00	-2.75	223.157	2.0	62666.250	1.0	160.3662	23.01	-4.71	13490.840	2.0	75848.130	3.0
160.1486	28.01	-2.76	74283.330	.5	136725.330	.5	160.3683	26.02	-1.37	137527.920	4.0	199884.390	5.0
160.1493	9.02	-2.99	380307.130	1.5	442748.850	2.5	160.3693	18.02	-1.06	209151.820	2.0	271507.880	2.0
160.1507	25.02	-2.61	110172.690	1.5	172613.870	2.5	160.3711	25.02	-1.03	133059.840	3.5	195415.200	4.5
160.1514	26.01	-3.15	21430.390	5.5	83871.310	4.5	160.3727	25.00	-4.60	0.000	2.5	62354.760	1.5
160.1517	28.01	-2.38	9330.040	3.5	71770.830	2.5	160.3766	25.02	-.72	114287.910	2.5	176641.140	3.5
160.1517	26.01	-4.67	13474.430	2.5	75915.210	2.5	160.3852	26.02	-2.22	139680.470	3.0	202030.380	3.0
160.1604	25.03	-.71	137853.000	4.0	200290.400	4.0	160.3852	30.02	-3.64	238336.200	2.0	300686.100	3.0
160.1621	26.02	-3.22	125672.830	2.0	188109.580	3.0	160.3916	28.02	-1.72	82277.000	1.0	144624.400	1.0
160.1650	27.02	-1.29	77383.100	3.5	139818.700	3.5	160.3917	15.00	-3.00	18722.650	.5	81070.000	1.5
160.1709	28.02	-2.52	78482.900	1.0	140916.200	2.0	160.3929	28.01	-4.73	52738.450	2.5	115085.360	3.5
160.1712	28.02	-1.02	71067.000	3.0	133500.200	2.0	160.3942	27.02	-2.43	77472.300	2.5	139818.700	3.5
160.1717	26.02	-1.28	122628.340	2.0	185061.350	1.0	160.3970	30.02	-4.97	234576.000	4.0	296921.300	3.0
160.1720	17.02	-3.89	146749.900	2.5	209182.800	1.5	160.4082	18.01	-.71	132481.140	2.5	194822.100	3.5
160.1739	25.02	-.30	114209.010	3.5	176641.140	3.5	160.4087	26.02	-1.53	138054.590	5.0	200395.330	5.0
160.1748	28.01	-1.63	74300.930	1.5	136732.740	1.5	160.4127	25.03	-2.10	137853.000	4.0	200192.200	5.0
160.1756	27.02	-1.44	110371.200	2.5	172802.700	2.5	160.4203	24.01	-5.60	12148.000	2.5	74484.250	2.5
160.1818	26.02	-2.19	139463.360	5.0	201892.440	5.0	160.4384	25.01	-4.08	38366.070	2.0	100695.300	1.0
160.1847	23.02	-.96	92052.550	4.5	154480.500	4.5	160.4399	25.02	-4.93	133086.570	4.5	195415.200	4.5
160.1863	18.01	-2.45	149179.170	3.5	211606.470	3.5	160.4426	11.02	-.59	406200.900	2.5	468528.500	1.5
160.1917	23.03	.14	155565.500	1.0	217990.700	1.0	160.4453	25.01	-3.49	38366.070	2.0	100692.600	2.0
160.1938	28.01	-1.22	74300.930	1.5	136725.330	.5	160.4462	27.02	-3.65	111283.100	.5	173609.300	1.5
160.1940	28.01	-3.77	73903.250	.5	136327.550	1.5	160.4462	27.02	-3.65	111283.100	.5	173609.300	1.5
160.1970	26.02	-.18	89334.510	2.0	151757.670	2.0	160.4462	27.02	-.97	111283.100	.5	173609.300	1.5
160.2018	25.01	-4.13	31760.930	2.0	94182.200	3.0	160.4468	23.01	-3.73	2604.820	1.0	64930.760	1.0
160.2063	27.02	-2.47	78927.800	3.5	141347.300	4.5	160.4508	25.03	-3.16	186659.400	4.0	248983.800	5.0
160.2069	27.02	-2.79	106591.900	1.5	169011.200	.5	160.4523	28.02	-.24	71067.000	3.0	133390.800	3.0
160.2130	25.03	-1.73	131462.500	5.0	193879.400	5.0	160.4537	26.02	-2.30	122628.340	2.0	184951.620	3.0
160.2138	27.01	-1.51	950.300	3.0	63366.900	2.0	160.4557	26.01	-5.66	0.000	4.5	62322.500	3.5
160.2177	25.02	-2.01	110036.140	.5	172451.230	1.5	160.4567	28.01	-1.50	53634.620	1.5	115956.710	2.5
160.2182	25.01	-4.41	43850.420	2.0	106265.300	1.0	160.4569	25.01	-3.29	38366.070	2.0	100688.100	3.0
160.2198	18.01	-1.33	149179.170	3.5	211593.440	4.5	160.4569	15.00	-2.43	18747.950	1.5	81070.000	1.5
160.2208	28.01	-.48	68156.570	1.5	130570.420	.5	160.4576	28.01	-4.59	10663.890	1.5	72985.650	1.5
160.2209	26.01	-2.36	1872.600	4.5	64286.440	3.5	160.4580	26.01	-1.94	16369.390	3.5	78690.980	2.5
160.2210	28.02	-3.38	75646.900	4.0	138060.700	5.0	160.4616	8.03	.06	513187.200	2.5	575507.400	3.5
160.2266	29.01	-1.20	72724.000	2.0	135135.600	1.0	160.4655	24.02	-3.41	96713.100	3.0	159031.800	2.0
160.2297	26.01	-5.81	862.630	1.5	63273.030	2.5	160.4705	26.02	-4.08	69788.190	1.0	132104.940	2.0
160.2300	26.02	-2.82	119982.260	1.0	182392.550	2.0	160.4841	24.01	-6.98	11962.000	.5	74273.480	1.5
160.2305	26.02	-3.09	139509.440	5.0	201919.530	4.0	160.4847	29.01	-1.88	73353.120	2.0	135664.340	1.0
160.2317	28.01	-2.34	58705.950	1.5	121115.590	1.5	160.4902	8.03	.17	513198.300	3.5	575507.400	3.5
160.2374	24.01	-7.94	20512.620	2.5	82920.030	1.5	160.4902	8.03	-1.37	513198.300	3.5	575507.400	3.5
160.2386	18.01	-3.58	149179.170	3.5	211586.110	2.5	160.4970	26.02	-2.79	120179.950	0.0	182486.400	1.0
160.2388	29.01	-1.16	73353.120	2.0	135759.970	2.0	160.4996	23.01	-3.46	13542.680	3.0	75848.130	3.0
160.2403	25.02	.30	112057.800	3.5	174464.070	4.5	160.5003	26.01	-5.88	384.770	3.5	62689.960	2.5
160.2407	25.02	-3.53	133276.400	4.5	195682.500	5.5	160.5031	25.02	-4.66	86051.500	2.5	148355.600	3.5
160.2411	28.01	-1.52	58705.950	1.5	121111.900	.5	160.5126	25.02	-.92	116851.690	3.5	179152.090	3.5
160.2430	26.02	-2.41	139625.170	4.0	202030.380	3.0	160.5140	26.02	-2.30	73935.960	0.0	136235.840	1.0
160.2476	24.01	-8.01	12032.720	1.5	74436.140	2.5	160.5183	25.03	-2.31	131462.500	5.0	193760.700	4.0
160.2500	27.02	-3.28	73726.600	2.5	136129.100	2.5	160.5216	28.01	-2.89	71770.830	2.5	134067.760	1.5
160.2505	28.02	-.78	78482.900	1.0	140885.200	1.0	160.5239	28.01	-3.19	68735.980	2.5	131032.010	2.5
160.2510	27.02	-3.14	76518.900	5.5	138921.000	4.5	160.5247	25.02	-.63	114094.970	1.5	176390.670	2.5
160.2515	26.01	-1.39	2430.080	3.5	64832.000	4.5	160.5273	29.01	-.49	71531.500	3.0	138826.200	2.0
160.2516	18.01	-.33	132481.140	2.5	194883.000	3.5	160.5275	26.01	-5.68	667.640	2.5	62962.260	1.5
160.2533	27.02	-4.89	108403.400	1.5	170804.600	1.5	160.5282	26.02	-2.02	139625.170	4.0	201919.530	4.0
160.2552	18.01	-1.04	132630.650	1.5	195031.120	2.5	160.5291	10.03	-4.26	524391.000	.5	586885.000	1.5
160.2555	25.01	-2.14	47073.560	3.0	109473.900	4.0	160.5301	27.02	-2.38	106591.900	1.5	168885.500	1.5
160.2652	25.02	-.09	110172.690	1.5	172569.270	1.5	160.5321	26.01	-.85	15844.710	4.5	78137.530	3.5
160.2671	25.02	-.14	114287.910	2.5	176683.760	2.5	160.5337	26.02	-2.27	138103.120	4.0	200395.330	5.0
160.2685	28.01	-1.93	71457.740	3.5	133853.040	2.5	160.5339	28.01	-3.67	54176.260	.5	116468.400	1.5
160.2704	26.02	-3.50	66522.950	2.0	128917.510	2.0	1						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
160.5958	26.02	-4.38	69836.830	3.0	132104.940	2.0	160.7924	26.04	-6.65	195942.000	3.0	258134.000	2.0
160.5961	27.01	-1.32	1597.200	2.0	63865.200	1.0	160.7932	25.01	-3.16	29869.110	2.0	92060.800	1.0
160.5969	28.02	-3.17	75123.800	5.0	137391.500	6.0	160.7986	26.02	-2.80	121241.670	4.0	183431.280	5.0
160.5976	23.01	-3.45	13490.840	2.0	75758.290	2.0	160.7992	25.01	-5.80	27570.950	5.0	89760.330	5.0
160.5979	27.02	-2.69	73861.800	1.5	136129.100	2.5	160.8036	26.02	-2.45	82382.870	3.0	144570.530	3.0
160.5980	26.02	-3.14	139625.170	4.0	201892.440	5.0	160.8064	26.02	-4.66	79860.420	5.0	142047.000	4.0
160.5996	9.02	-2.14	355981.900	1.5	418248.560	1.5	160.8091	25.02	.01	112057.800	3.5	174243.330	3.5
160.6006	26.02	-4.40	89491.390	1.0	151757.670	2.0	160.8105	24.02	-1.76	97618.300	5.0	159803.300	4.0
160.6015	26.02	-1.26	139764.480	2.0	202030.380	3.0	160.8134	28.01	-2.22	53601.190	1.5	115783.060	1.5
160.6114	25.03	-6.64	137930.100	5.0	200192.200	5.0	160.8191	25.02	-6.40	114209.010	3.5	176390.670	2.5
160.6153	18.01	-2.28	142717.020	3.5	204977.590	2.5	160.8227	24.01	-6.28	12303.980	3.5	74484.250	2.5
160.6165	23.02	-5.51	98825.190	3.5	161085.300	4.5	160.8239	24.02	-5.58	96148.500	1.0	158328.300	2.0
160.6174	28.01	-3.09	10115.660	2.5	72375.420	1.5	160.8250	27.02	-3.81	76791.100	1.5	138970.500	1.5
160.6180	26.02	-2.37	83358.880	2.0	145618.390	2.0	160.8264	26.02	-3.44	63494.000	3.0	125672.830	2.0
160.6185	20.01	-1.45	25414.400	1.5	87673.720	2.5	160.8279	26.02	-4.25	63494.560	2.0	125672.830	2.0
160.6197	18.01	-7.76	132737.610	.5	194996.490	1.5	160.8279	9.02	-4.96	395268.130	1.5	457446.390	.5
160.6212	24.02	-2.30	96773.500	1.0	159031.800	2.0	160.8311	25.01	-6.70	27583.300	4.0	89760.330	5.0
160.6214	28.02	-2.92	71067.000	3.0	133325.200	4.0	160.8315	25.02	-2.23	114287.910	2.5	176265.780	3.5
160.6219	11.05	-6.67	1005713.000	2.0	1067971.000	2.0	160.8356	25.02	-2.95	114094.970	1.5	176270.250	2.5
160.6231	20.01	-2.40	25414.400	1.5	87671.930	1.5	160.8358	28.01	.19	68156.570	1.5	130331.760	1.5
160.6261	23.02	-4.86	44646.960	4.5	106903.350	5.5	160.8392	26.02	-4.64	137527.920	4.0	199701.820	3.0
160.6277	25.02	-2.71	114209.010	3.5	176464.780	3.5	160.8395	26.02	-8.80	122829.550	3.0	185003.350	2.0
160.6289	24.02	-2.33	97120.300	3.0	159375.600	3.0	160.8438	6.00	-3.21	21648.010	0.0	83820.130	1.0
160.6338	23.01	-1.50	13594.730	2.0	75848.130	3.0	160.8441	27.02	-1.69	110961.500	1.5	173133.500	1.5
160.6378	20.02	-3.20	323655.060	2.0	385906.900	2.0	160.8443	28.01	.38	53037.930	2.5	115209.850	3.5
160.6425	26.02	-3.76	138187.930	3.0	200437.940	2.0	160.8447	26.01	-4.45	0.000	4.5	62171.760	3.5
160.6482	20.02	-4.29	279353.640	1.0	341601.460	2.0	160.8467	10.03	-2.61	579737.000	.5	641908.000	.5
160.6503	25.04	-7.79	184633.000	3.5	246880.000	2.5	160.8471	24.01	-9.94	12148.000	2.5	74318.860	2.5
160.6514	23.01	-2.11	13511.710	1.0	75758.290	2.0	160.8472	25.02	-1.79	114094.970	1.5	176265.780	1.5
160.6551	28.01	-3.50	57420.160	2.5	119665.290	2.5	160.8473	25.02	-1.10	110398.500	2.5	172569.270	1.5
160.6556	18.02	-3.91	180679.000	1.0	242923.960	1.0	160.8475	25.01	-1.92	29869.110	2.0	92039.800	2.0
160.6557	29.02	-1.16	80305.200	1.5	142550.100	.5	160.8517	10.01	-2.12	251011.180	2.5	313180.230	1.5
160.6587	23.01	-2.99	2687.010	2.0	64930.760	1.0	160.8535	26.01	-1.96	1872.600	4.5	64040.960	3.5
160.6615	28.01	-2.91	53496.490	5.5	115739.150	4.5	160.8545	11.05	-7.88	872577.000	1.0	934745.000	0.0
160.6632	26.01	-5.05	13673.210	1.5	75915.210	2.5	160.8615	25.02	-1.05	111883.600	2.5	174048.890	2.5
160.6632	10.03	-3.76	524676.000	1.5	586918.000	2.5	160.8631	28.01	-1.47	68735.980	2.5	130900.650	2.5
160.6643	28.02	-4.86	78303.100	2.0	140544.700	3.0	160.8640	29.01	-1.48	73595.640	1.0	135759.970	2.0
160.6664	24.01	-6.98	12032.720	1.5	74273.480	1.5	160.8654	25.01	-5.55	29919.220	2.0	92083.000	3.0
160.6679	27.02	-3.90	107530.100	3.5	169770.300	2.5	160.8659	23.01	-2.61	13594.730	2.0	75758.290	2.0
160.6695	28.01	-1.26	56075.260	2.5	118314.820	2.5	160.8666	28.02	-2.34	55952.000	2.0	118115.300	2.0
160.6706	23.01	-2.59	13609.000	4.0	75848.130	3.0	160.8687	26.02	-1.19	122898.840	2.0	185061.350	1.0
160.6708	26.02	-3.72	139680.470	3.0	201919.530	4.0	160.8743	26.02	-2.94	122843.030	1.0	185003.350	2.0
160.6715	26.02	-3.35	117521.910	4.0	179760.720	3.0	160.8762	26.02	-3.85	82410.940	2.0	144570.530	3.0
160.6730	29.02	.10	63143.600	2.5	125381.800	2.5	160.8767	26.01	-6.11	21711.890	3.5	83871.310	4.5
160.6767	25.02	-2.13	116580.170	1.5	178816.960	2.5	160.8771	18.02	-3.99	204563.530	1.0	266722.800	2.0
160.6785	28.01	-2.95	57420.160	2.5	119656.250	3.5	160.8776	28.01	-2.06	71770.830	2.5	133929.880	3.5
160.6785	26.02	-2.90	117521.910	4.0	179757.980	4.0	160.8798	26.01	-7.17	0.000	4.5	62158.190	4.5
160.6796	28.01	-1.34	53634.620	1.5	115870.280	2.5	160.8824	26.02	-1.78	137544.600	2.0	199701.820	3.0
160.6816	28.01	-1.34	57080.550	3.5	119315.440	2.5	160.8835	26.01	-7.11	21711.890	3.5	83868.650	2.5
160.6834	29.01	-1.21	71493.680	2.0	133727.870	2.0	160.8884	27.02	-5.55	77472.300	2.5	139627.200	1.5
160.6837	18.01	-1.37	142717.020	3.5	204951.090	3.5	160.8916	14.00	-1.68	223.157	2.0	62376.820	3.0
160.6854	27.02	-3.32	110961.500	1.5	173194.900	2.5	160.8961	24.01	-8.40	12303.980	3.5	74455.900	4.5
160.6854	27.02	-3.32	110961.500	1.5	173194.900	2.5	160.8979	26.02	-3.03	63486.780	4.0	125637.980	3.0
160.6854	27.02	-5.58	110961.500	1.5	173194.900	2.5	160.8998	25.01	-6.07	29869.110	3.0	92039.800	2.0
160.6857	29.02	-1.85	77967.600	2.5	140200.900	1.5	160.9020	25.01	-4.22	38542.960	3.0	100692.600	2.0
160.6926	18.01	-6.62	132630.650	1.5	194861.270	2.5	160.9027	25.02	.08	110398.500	2.5	172547.850	2.5
160.6958	25.01	-4.27	27570.950	5.0	89800.340	4.0	160.9043	22.01	-2.08	8744.270	2.5	70893.000	3.5
160.6960	6.00	-2.26	21648.010	0.0	83877.310	1.0	160.9070	28.01	-3.69	67694.640	2.5	129842.330	2.5
160.6968	24.04	-6.65	168099.000	3.0	230328.000	3.0	160.9136	25.01	-3.38	38542.960	3.0	100688.100	3.0
160.6987	18.02	-3.44	204649.240	2.0	266877.500	3.0	160.9151	26.02	-9.94	124854.040	3.0	186998.600	4.0
160.7009	28.02	-1.07	78657.800	0.0	140885.200	1.0	160.9163	25.02	-3.32	111776.600	1.5	173920.690	1.5
160.7023	25.02	-2.50	133455.640	5.5	195682.500	5.5	160.9181	25.02	.73	110711.620	3.5	172855.020	4.5
160.7039	26.02	-2.19	117521.910	4.0	179748.170	5.0	160.9209	26.02	-1.55	137763.700	5.0	199906.030	6.0
160.7079	26.01	-3.55	13904.870	.5	76129.580	1.5	160.9228	25.01	-6.25	29919.220	2.0	92060.800	1.0
160.7081	23.01	-2.91	13490.840	2.0	75715.450	1.0	160.9270	26.02	-1.43	122921.370	1.0	185061.350	1.0
160.7086	25.02	-4.97	68899.200	4.5	131123.640	5.5	160.9270	25.02	-5.53	114501.180	4.5	176641.140	3.5
160.7137	26.02	-1.73	138103.120	4.0	200325.560	4.0	160.9281	26.02	-1.86	117521.910	4.0	179661.480	3.0
160.7180	18.01	-1.17	142717.020	3.5	204937.800	4.5	160.9286	25.01	-2.79	38542.960	3.0	100682.300	4.0
160.7222	26.02	-1.86	84671.870	3.0	146891.040	3.0	160.9300	25.02	.02	133276.440	4.5	195415.200	4.5
160.7228	28.01	-2.33	56075.260	2.5	118294.170	3.5	160.9331	26.02	-2.23	138187.930	3.0	200325.560	4.0
160.7244	26.02	-1.40	122843.030	1.0	185061.350	1.0	160.9362	28.01	-2.33	52738.450	2.5	114874.880	2.5
160.7256	25.02	-8.80	113991.310	.5	176209.150	1.5	160.9371	28.01	-3.04	54176.260	.5	116312.340	1.5
160.7277	25.01	-5.30	27583.300	4.0	89800.340	4.0	160.9472	24.01	-9.09	12303.980	3.5	74436.140	2.5
160.7314	23.01	-2.72	13542.680	3.0	75758.290	2.0	160.9472	28.01	-4.44	71770.830	2.5	133903.000	1.5
160.7317	26.02	-2.37	121241.670	4.0	183457.150	4.0	160.9482	26.01	-7.08	8391.920	2.5	70523.730	3.5
160.7320	25.02	-3.67	110398.500	2.5	172613.870	2.5	160.9502	26.02	-4.87	119697.640	2.0	181828.660	2.0
160.7329	26.02	-1.27	121241.670	4.0	183456.690	3.0	160.9506	26.02	-3.41	138264.470	6.0	200395.330	5.0
160.7345	26.01	-4.50											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
161.0137	23.01	-1.14	13741.610	3.0	75848.130	3.0	161.2709	26.02	-4.48	122944.150	4.0	184951.620	3.0
161.0189	26.02	-1.90	122898.840	2.0	185003.350	2.0	161.2719	28.02	-4.80	71383.700	2.0	133390.800	3.0
161.0192	6.00	-3.66	21648.010	0.0	83752.410	1.0	161.2725	26.02	-4.69	82494.880	1.0	144501.740	2.0
161.0234	25.02	-1.22	114287.910	2.5	176390.670	2.5	161.2752	27.02	-4.87	110371.200	2.5	172377.000	3.5
161.0249	21.02	-4.55	0.000	1.5	62102.200	1.5	161.2754	25.02	-4.82	114094.970	1.5	176100.710	1.5
161.0296	29.01	-2.72	71493.680	2.0	133594.050	3.0	161.2758	25.03	-4.05	186659.400	4.0	248665.000	4.0
161.0313	26.01	-2.41	31387.980	2.5	93487.710	3.5	161.2786	26.01	-2.68	31483.200	3.5	93487.710	3.5
161.0316	26.01	-5.85	862.630	1.5	62962.260	1.5	161.2792	25.01	-4.63	44521.520	4.0	106525.800	3.0
161.0353	28.01	-3.09	52738.450	2.5	114836.630	3.5	161.2805	26.01	-4.21	1872.600	4.5	63876.380	5.5
161.0358	5.00	-3.16	0.000	.5	62098.000	.5	161.2815	25.02	-4.75	68892.000	3.5	130895.390	4.5
161.0384	27.02	-3.17	106591.900	1.5	168688.900	2.5	161.2863	26.01	-2.46	31483.200	3.5	93484.750	4.5
161.0386	28.01	-4.49	75917.630	3.5	138014.530	2.5	161.2958	28.02	-1.65	71841.900	1.0	133839.800	1.0
161.0402	25.03	-2.53	187278.500	5.0	249374.800	6.0	161.2966	27.02	-2.70	107530.100	3.5	169527.700	4.5
161.0419	25.01	-3.91	48333.060	5.0	110428.700	4.0	161.2968	38.01	-4.35	14555.900	0.0	76553.410	0.0
161.0423	23.02	-5.33	44345.820	3.5	106441.310	4.5	161.3002	25.02	-4.51	68899.200	4.5	130895.390	4.5
161.0504	26.02	-2.39	139827.170	4.0	201919.530	4.0	161.3003	26.01	-4.46	2337.940	2.5	64834.120	1.5
161.0530	28.01	-4.99	71770.830	2.5	133862.210	1.5	161.3019	20.02	-2.91	279353.640	1.0	341349.190	1.0
161.0531	26.02	-3.22	70694.030	5.0	132785.360	4.0	161.3023	26.01	-8.19	2430.080	3.5	64425.460	2.5
161.0532	28.02	-4.99	71067.000	3.0	133158.300	3.0	161.3024	23.01	-2.86	2308.760	3.0	64804.130	2.0
161.0545	26.02	-2.25	82410.940	2.0	144501.740	2.0	161.3045	28.01	-4.35	68735.980	2.5	130730.530	2.5
161.0578	29.02	-4.19	80422.800	.5	142512.300	1.5	161.3124	28.01	-1.29	54176.260	.5	116167.760	1.5
161.0589	15.04	-4.53	352595.300	3.5	414684.400	3.5	161.3135	25.02	-4.60	112057.800	3.5	174048.890	2.5
161.0589	15.04	1.02	352595.300	3.5	414684.400	4.5	161.3136	28.01	.16	53601.190	1.5	115592.250	1.5
161.0589	15.04	.90	352595.300	2.5	414684.400	3.5	161.3156	24.02	-4.82	50408.200	5.0	112398.500	4.0
161.0600	25.01	-6.24	29951.120	1.0	92039.800	2.0	161.3163	10.04	-2.31	640422.000	1.0	702412.000	1.0
161.0608	25.02	.12	117063.740	4.5	179152.090	3.5	161.3166	28.01	-3.29	74300.930	1.5	136290.830	.5
161.0629	15.00	-3.78	18722.650	.5	80810.200	1.5	161.3169	27.01	-3.05	1597.200	2.0	63587.000	3.0
161.0658	18.01	-3.51	143107.600	2.5	205194.040	1.5	161.3200	30.02	-4.09	194303.300	2.0	256291.900	1.0
161.0664	9.02	-4.35	391257.420	2.5	453343.620	2.5	161.3215	28.01	.09	71457.740	3.5	133445.750	4.5
161.0666	30.02	-3.60	234866.900	1.0	296953.000	2.0	161.3222	25.01	-4.66	27583.300	4.0	89571.030	3.0
161.0681	28.01	-3.32	54176.260	.5	116261.810	.5	161.3224	28.01	-2.34	74300.930	1.5	136288.600	2.5
161.0742	26.01	-6.16	0.000	4.5	62083.170	4.5	161.3273	30.02	-3.14	234866.900	1.0	296852.700	1.0
161.0751	5.00	-2.86	15.150	1.5	62098.000	.5	161.3288	26.01	-4.84	977.030	.5	62962.260	1.5
161.0755	26.02	-3.90	66522.950	2.0	128605.650	1.0	161.3330	27.02	-4.46	76791.100	1.5	138774.700	2.5
161.0771	28.01	.21	53037.930	2.5	115120.000	2.5	161.3351	25.01	-5.11	27588.230	3.0	89571.030	3.0
161.0773	26.02	-2.08	122921.370	1.0	185003.350	2.0	161.3363	25.02	-3.38	114287.910	2.5	176270.250	2.5
161.0774	28.01	-3.24	68154.310	1.5	130236.260	2.5	161.3365	25.02	-4.81	86578.240	3.5	148560.500	4.5
161.0782	25.02	-3.88	86486.770	1.5	148568.400	2.5	161.3372	25.01	-6.54	27589.030	2.0	89571.030	3.0
161.0817	30.02	-3.60	234384.000	3.0	296464.300	2.0	161.3376	6.00	-4.71	0.000	0.0	61981.820	1.0
161.0821	18.02	-3.66	204797.370	3.0	266877.500	3.0	161.3387	23.01	-4.65	2604.820	1.0	64586.230	2.0
161.0833	14.00	-4.77	77.115	1.0	62156.810	2.0	161.3398	28.02	-4.38	82172.900	3.0	144153.900	4.0
161.0861	26.03	-4.81	127928.100	1.5	190006.700	2.5	161.3427	6.01	-3.01	166967.130	.5	228947.000	1.5
161.0884	24.02	-4.61	96385.900	2.0	158463.600	3.0	161.3448	26.02	-2.94	124903.920	2.0	186882.980	3.0
161.0919	20.01	-2.39	25191.510	.5	87267.860	.5	161.3466	23.01	-6.84	106.630	2.0	62085.020	2.0
161.0922	26.01	-4.80	1872.600	4.5	63948.840	4.5	161.3472	25.02	-4.84	116580.170	1.5	178558.300	1.5
161.0954	25.00	-5.11	0.000	2.5	62075.020	2.5	161.3478	26.02	-1.81	73727.640	2.0	135705.570	3.0
161.0992	18.02	-3.79	204649.240	2.0	266722.800	2.0	161.3479	25.02	-4.36	114287.910	2.5	176265.780	1.5
161.0993	11.02	-1.29	406876.000	.5	468949.500	.5	161.3497	26.02	-2.78	63466.390	5.0	125443.580	4.0
161.1017	24.02	-1.09	111854.000	5.0	173926.600	6.0	161.3508	6.01	-3.03	166990.730	1.5	228967.490	2.5
161.1077	28.01	-3.12	71457.740	3.5	133528.020	3.5	161.3509	28.01	-1.67	68965.650	1.5	130942.360	1.5
161.1080	28.01	-4.11	53037.930	2.5	115108.090	2.5	161.3511	28.01	-4.24	68965.650	1.5	130942.360	1.5
161.1097	24.02	-4.31	97306.100	2.0	159375.600	3.0	161.3637	9.02	-2.50	380307.130	1.5	442278.930	2.5
161.1108	25.03	.49	138123.100	6.0	200192.200	5.0	161.3646	18.01	-2.55	143107.600	2.5	205079.070	2.5
161.1118	29.01	-2.82	73595.640	1.0	135664.340	1.0	161.3647	26.02	-3.33	83466.980	1.0	145618.390	2.0
161.1131	26.02	-2.82	86847.110	2.0	148915.300	1.0	161.3657	25.02	.12	110711.620	3.5	172682.640	3.5
161.1141	27.01	-2.58	1597.200	2.0	63665.000	1.0	161.3753	23.01	-5.01	208.890	3.0	62176.240	4.0
161.1193	27.02	-2.35	107530.100	3.5	169595.900	3.5	161.3774	26.01	-5.82	862.630	1.5	62829.160	.5
161.1199	26.01	-5.06	0.000	4.5	62065.570	3.5	161.3775	11.02	-4.96	406562.000	1.5	468528.500	1.5
161.1207	26.02	-2.50	139827.170	4.0	201892.440	5.0	161.3776	24.01	-6.88	12148.000	2.5	74114.480	3.5
161.1263	30.02	-4.81	190341.300	4.0	252404.400	3.0	161.3803	6.00	-4.69	16.400	1.0	61981.820	1.0
161.1285	15.00	-3.08	18747.950	1.5	80810.200	1.5	161.3807	25.02	-4.02	116851.690	3.5	178816.960	2.5
161.1312	25.02	-4.39	114209.010	3.5	176270.250	2.5	161.3820	28.01	.55	56001.190	1.5	115565.980	2.5
161.1335	26.02	-2.68	70725.010	3.0	132785.360	4.0	161.3829	28.01	-4.18	71770.830	2.5	133735.260	2.5
161.1349	27.01	-3.75	24074.600	2.0	86134.400	1.0	161.3836	28.01	-2.45	71770.830	2.5	133734.980	3.5
161.1370	24.04	-1.35	167497.000	2.0	229556.000	2.0	161.3837	26.01	-2.52	31364.470	1.5	93328.600	1.5
161.1384	25.02	-4.30	111776.600	1.5	173835.070	.5	161.3851	25.02	-4.04	114501.180	4.5	176464.780	3.5
161.1398	26.02	-1.31	117521.910	4.0	179579.830	5.0	161.3880	26.02	-2.71	121468.820	5.0	183431.280	5.0
161.1432	26.02	-2.17	70728.750	4.0	132785.360	4.0	161.3884	28.01	-4.52	53037.930	2.5	115000.250	3.5
161.1432	26.01	-4.95	21812.040	1.5	83868.650	2.5	161.3924	29.02	-1.99	80551.500	2.5	142512.300	1.5
161.1448	28.01	-3.35	55018.710	2.5	117074.700	3.5	161.3934	27.02	-4.40	106449.200	3.5	168449.600	3.5
161.1531	26.02	-1.93	122898.840	2.0	184951.620	3.0	161.3941	26.01	-2.61	31368.450	.5	93328.600	1.5
161.1533	25.02	-2.77	110398.500	2.5	172451.230	1.5	161.3955	28.02	-1.52	82194.300	5.0	144153.900	4.0
161.1630	23.01	-6.49	36.050	1.0	62085.020	2.0	161.3956	25.02	-1.43	133455.640	5.0	195415.200	4.5
161.1670	25.02	-4.85	86520.940	2.5	148568.400	2.5	161.3968	24.01	-9.22	12496.790	4.5	74455.900	4.5
161.1681	11.05	-1.85	1005713.000	2.0	1067760.000	1.0	161.3997	25.04	.11	183528.000	2.5	245486.000	2.5
161.1694	26.02	-4.21	89491.390	1.0	151537.910	0.0	161.4028	26.02	-4.92	63486.780	4.0	125443.580	4.0
161.1701	26.02	-3.60	139846.180	6.0	201892.440	5.0	161.4042	6.01	-3.51	166990.730	1.5	228947.000	1.5
161.1726	26.02	.14	89491.390	1.0	151536.680	1.0	161.4046	26.03	-4.30	12792			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
161.4845	18.02	-4.74	204797.370	3.0	266722.800	2.0	161.7688	26.03	-2.22	128190.100	2.5	190006.700	2.5
161.4853	15.00	-3.27	18747.950	1.5	80673.100	0.5	161.7715	24.02	-3.96	49827.700	3.0	111643.300	4.0
161.4857	24.01	-9.66	12496.790	4.5	74421.760	5.5	161.7749	26.01	-6.87	25787.600	1.5	87601.900	1.5
161.4870	23.01	-5.67	208.890	3.0	62133.390	3.0	161.7761	25.02	0.87	133086.570	4.5	194900.400	5.5
161.4878	18.01	-1.26	150147.620	2.5	212071.800	3.5	161.7848	24.01	-7.29	12303.980	3.5	74114.480	3.5
161.4881	23.01	-4.31	14461.730	3.0	76385.800	3.0	161.7887	18.01	-3.35	143371.350	1.5	205180.360	4.5
161.4896	30.02	0.37	190341.300	4.0	252264.800	4.0	161.7893	24.02	-2.91	111854.000	5.0	173662.800	6.0
161.4915	28.01	-1.50	56371.410	3.5	118294.170	3.5	161.7911	26.02	-3.35	124903.920	2.0	186712.020	1.0
161.4919	24.02	-1.18	111643.300	4.0	173565.900	5.0	161.7915	29.01	-2.41	71919.930	3.0	133727.870	2.0
161.4955	25.02	-0.77	114287.910	2.5	176209.150	1.5	161.7927	25.01	-4.78	44899.820	3.0	106707.300	4.0
161.5000	25.02	-4.26	71831.980	2.5	133751.500	3.5	161.7937	28.02	-1.71	56308.200	1.0	118115.300	2.0
161.5061	25.01	-2.46	9472.970	2.0	71390.140	3.0	161.7939	26.02	-3.92	83161.480	4.0	144968.500	4.0
161.5078	23.01	-3.88	2687.010	2.0	64603.530	3.0	161.7970	25.02	-0.40	116580.170	1.5	178386.000	4.5
161.5145	9.02	-3.98	390834.600	2.5	452748.540	2.5	161.8006	14.00	-3.24	77.115	1.0	61881.600	1.0
161.5185	26.01	-4.60	31483.200	3.5	93395.600	2.5	161.8034	27.01	-5.13	3350.500	5.0	65153.900	4.0
161.5209	24.02	-4.62	97120.300	3.0	159031.800	2.0	161.8065	27.02	-8.54	37021.000	3.5	98823.200	2.5
161.5214	6.01	-2.98	167035.710	2.5	228947.000	1.5	161.8101	15.00	-1.82	18747.950	1.5	80548.800	2.5
161.5232	24.02	-0.79	96713.100	3.0	158623.700	4.0	161.8103	26.02	-2.60	83237.860	3.0	145038.610	3.0
161.5279	10.01	-4.81	246192.450	2.5	308101.270	2.5	161.8126	27.02	-4.40	77121.100	4.5	138921.000	4.5
161.5450	25.02	-2.70	110711.620	3.5	172613.870	2.5	161.8260	23.01	-3.71	2808.760	3.0	64603.530	3.0
161.5459	28.01	0.74	67880.160	2.5	129782.070	3.5	161.8271	23.02	-8.48	44646.960	4.5	106441.310	4.5
161.5483	10.03	-3.26	525017.000	2.5	586918.000	2.5	161.8275	23.01	-6.55	339.210	4.0	62133.390	3.0
161.5529	23.01	-4.70	2687.010	2.0	64586.230	2.0	161.8291	28.02	-4.27	76237.800	3.0	138031.400	4.0
161.5596	9.02	-4.89	380250.520	2.5	442147.190	2.5	161.8351	27.02	-4.98	108403.400	1.5	170194.700	5.5
161.5598	28.02	-1.88	75123.800	5.0	137020.400	5.0	161.8360	25.01	-2.40	9472.970	2.0	71263.920	1.0
161.5616	22.01	-2.25	8710.470	1.5	70606.350	2.5	161.8403	26.02	-3.05	120697.100	1.0	182486.400	1.0
161.5631	22.01	-3.87	8997.690	3.5	70893.000	3.5	161.8411	29.02	-0.64	77967.600	2.5	139756.600	2.5
161.5632	28.01	-2.22	57420.160	2.5	119315.440	2.5	161.8458	17.03	-1.56	187174.000	2.0	248961.200	3.0
161.5656	25.01	-5.72	27570.950	5.0	89465.300	4.0	161.8464	26.01	-1.00	384.770	3.5	62171.760	3.5
161.5660	26.01	-4.13	30388.550	4.5	92282.760	3.5	161.8491	25.00	-6.35	0.000	2.5	61785.940	3.5
161.5710	10.01	-4.91	251011.180	2.5	312903.480	2.5	161.8513	28.01	-3.81	67694.640	2.5	129497.730	1.5
161.5759	27.01	-4.28	9812.700	4.0	71703.100	5.0	161.8537	26.01	-6.76	25787.600	1.5	87571.800	2.5
161.5761	28.01	-2.45	56424.490	1.5	118314.820	2.5	161.8552	26.02	-2.02	120697.100	1.0	182480.720	2.0
161.5793	15.00	-2.18	11360.800	1.5	73249.900	1.5	161.8558	26.01	-3.47	30388.550	4.5	92171.950	4.5
161.5809	18.01	-3.28	143107.600	2.5	204996.090	3.5	161.8614	26.02	-1.03	138103.120	4.0	199884.390	5.0
161.5823	29.01	-0.79	88362.030	2.0	150250.000	2.0	161.8627	25.02	-3.00	84610.530	5.5	146391.300	5.5
161.5826	26.02	-3.02	124903.920	2.0	186791.780	2.0	161.8643	25.01	-3.89	39808.140	3.0	101588.300	3.0
161.5874	11.05	-0.56	872597.000	1.0	934463.000	1.0	161.8651	26.02	-3.81	66591.680	1.0	128371.530	0.0
161.5949	14.00	-1.25	77.115	1.0	61960.260	0.0	161.8657	28.01	-4.09	67694.640	2.5	129474.270	3.5
161.5951	28.01	-4.37	54262.630	3.5	116145.690	3.5	161.8657	15.02	0.49	116873.600	1.5	178653.200	2.5
161.5979	25.01	-5.36	27583.300	4.0	89465.300	4.0	161.8692	26.01	-4.90	30388.550	4.5	92166.810	5.5
161.5989	14.00	-3.14	0.000	0.0	61881.600	1.0	161.8713	23.01	-3.28	2808.760	3.0	64586.230	2.0
161.6078	25.02	-1.37	133804.280	6.5	195682.500	5.5	161.8716	25.02	-4.42	86578.240	3.5	148355.600	3.5
161.6108	25.01	-4.77	27588.230	3.0	89465.300	4.0	161.8777	28.01	-2.23	55299.650	4.5	117074.700	3.5
161.6116	9.02	-1.15	356371.820	2.5	418248.560	1.5	161.8780	25.01	-3.93	39813.380	2.0	101588.300	3.0
161.6132	23.01	-6.72	208.890	3.0	62085.020	2.0	161.8782	22.01	-2.40	9118.150	4.5	70893.000	3.5
161.6167	29.02	-0.59	80551.500	2.5	142426.300	2.5	161.8788	28.02	-1.65	71383.700	2.0	133158.300	3.0
161.6173	9.01	-2.43	207699.070	1.0	269573.640	1.0	161.8819	26.01	-5.75	384.770	3.5	62158.190	4.5
161.6201	15.00	-1.11	11376.400	2.5	73249.900	1.5	161.8833	28.02	-2.68	79143.300	2.0	140916.200	2.0
161.6250	9.01	-2.24	207702.040	0.0	269573.640	1.0	161.8835	24.02	-3.45	56650.500	2.0	118423.900	2.0
161.6274	26.02	-3.30	70694.030	5.0	132564.710	5.0	161.8917	27.01	-2.13	1597.200	2.0	63366.900	2.0
161.6292	18.01	-1.59	143107.600	2.5	204977.590	2.5	161.8949	28.01	0.77	76727.360	5.5	138495.840	4.5
161.6296	9.01	-3.20	207703.790	2.0	269573.640	1.0	161.8953	15.02	0.64	116884.900	2.5	178653.200	2.5
161.6381	27.01	-3.74	24267.800	1.0	86134.400	1.0	161.8953	15.02	-0.66	116884.900	2.5	178653.200	2.5
161.6383	28.01	-1.37	72375.420	1.5	134241.960	0.5	161.8958	26.01	-2.02	16369.390	3.5	78137.530	3.5
161.6393	25.02	-2.20	116692.140	2.5	178558.300	1.5	161.8992	26.01	-5.95	384.770	3.5	62151.610	2.5
161.6426	28.01	-3.81	75917.630	3.5	137782.500	4.5	161.9001	25.01	-3.92	55371.300	3.0	117137.800	4.0
161.6427	9.01	-1.92	207699.070	1.0	269563.930	2.0	161.9008	25.02	-3.18	72183.330	3.5	133949.540	4.5
161.6444	9.02	-4.54	351330.800	1.5	413195.000	2.5	161.9019	27.02	-4.79	78434.300	5.5	140200.100	1.5
161.6454	27.02	-3.32	73540.200	3.5	135404.000	4.5	161.9043	28.01	-4.00	68965.650	1.5	130730.530	2.5
161.6499	22.01	-2.20	8744.270	2.5	70606.350	2.5	161.9044	14.00	-2.52	77.115	1.0	61841.940	2.0
161.6536	28.01	-0.00	68709.760	4.5	130570.420	5.5	161.9045	24.02	-3.85	50089.200	4.0	111854.000	5.0
161.6550	9.01	-2.32	207703.790	2.0	269563.930	2.0	161.9101	9.02	-4.81	427731.850	2.5	489494.530	3.5
161.6567	27.02	-1.72	78927.800	3.5	140787.300	2.5	161.9206	23.01	-4.10	14461.730	3.0	76220.400	2.0
161.6579	14.00	-1.18	77.115	1.0	61936.130	1.0	161.9246	26.02	-2.70	124954.880	1.0	186712.020	1.0
161.6582	28.01	-3.86	75917.630	3.5	137776.550	3.5	161.9379	26.02	-2.15	126390.570	1.0	188142.640	2.0
161.6598	29.02	0.08	63886.300	1.5	125744.800	1.5	161.9392	28.01	-2.18	71457.740	3.5	133209.300	2.5
161.6649	26.01	-1.65	2430.080	3.5	64286.440	3.5	161.9399	28.02	-0.32	71067.000	3.0	132818.300	2.0
161.6724	20.01	-2.09	25414.400	1.5	87267.860	5.5	161.9420	24.02	-2.57	96713.100	3.0	158463.600	3.0
161.6745	14.01	-4.51	55325.440	2.5	117178.120	2.5	161.9427	26.02	-3.56	138054.590	5.0	199804.810	4.0
161.6759	26.01	-4.91	977.030	5.5	62829.160	2.5	161.9480	24.02	-4.33	49626.800	2.0	111375.000	3.0
161.6762	26.02	-8.35	20481.900	4.0	82333.920	3.0	161.9515	27.01	-4.77	1597.200	2.0	63344.100	3.0
161.6777	26.02	-1.01	138054.590	5.0	199906.030	6.0	161.9527	14.00	-2.69	77.115	1.0	61823.500	2.0
161.6804	27.02	-1.92	111283.100	5.5	171313.500	1.5	161.9535	26.02	-3.07	138691.810	1.0	200437.940	2.0
161.6810	25.01	-4.94	44899.820	3.0	106750.000	2.0	161.9550	18.01	-4.29	147503.020	1.5	209248.550	2.5
161.6810	25.01	-2.51	9472.970	2.0	71323.150	2.0	161.9559	28.01	-3.93	68965.650	1.5	130710.850	5.5
161.6829	28.01	-3.33	51557.850	3.5	113407.310	2.5	161.9600	25.02	0.06	11111.390	4.5	172855.020	4.5
161.6878	26.01	-7.57	25787.600	1.5	87635.200	5.5	161.96						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
162.0309	26.01	-3.20	3117.480	1.5	64834.120	1.5	162.2911	24.01	-8.09	12496.790	4.5	74114.480	3.5
162.0320	28.01	-3.90	53365.170	4.5	115081.360	4.5	162.2913	14.02	-2.62	153377.050	1.0	214994.650	1.0
162.0373	27.02	-2.59	107297.000	1.5	169011.200	1.5	162.2932	26.02	-1.15	138187.930	3.0	199804.810	4.0
162.0405	14.00	-1.16	223.157	2.0	61936.130	1.0	162.2942	26.02	-2.21	77075.300	1.0	138691.810	1.0
162.0426	28.01	-6.65	71457.740	3.5	133169.920	3.5	162.2976	24.02	-4.26	96713.100	3.0	158328.300	2.0
162.0433	24.02	-1.67	111854.000	5.0	173565.900	5.0	162.2976	17.03	-6.69	187346.000	3.0	248961.200	3.0
162.0443	28.01	-3.74	10663.890	1.5	72375.420	1.5	162.2979	28.01	-1.50	51557.850	3.5	113172.960	4.5
162.0449	28.02	.00	71183.700	2.0	133095.000	3.0	162.3047	28.01	-4.74	76402.030	2.5	138014.530	2.5
162.0457	25.00	-5.22	0.000	2.5	61710.980	3.5	162.3055	14.02	-2.31	153377.050	1.0	214989.270	2.0
162.0543	18.01	-2.87	143371.350	1.5	205079.070	2.5	162.3090	26.02	-8.89	2430.080	3.5	64040.960	3.5
162.0596	26.02	-6.94	82410.940	2.0	144116.640	3.0	162.3148	22.01	-2.53	8997.690	3.5	70606.350	2.5
162.0606	25.03	-3.51	187278.500	5.0	248983.800	5.0	162.3161	26.02	-4.63	69836.830	3.0	131445.030	2.0
162.0614	25.02	.96	111601.450	5.5	173306.450	6.5	162.3168	29.01	-1.64	69704.800	4.0	131312.700	3.0
162.0652	15.00	-3.22	18722.650	.5	80426.200	1.5	162.3175	28.01	-2.99	54262.630	3.5	115870.280	2.5
162.0664	26.02	-4.83	82382.870	3.0	144089.970	4.0	162.3212	18.01	-1.93	143371.350	1.5	204977.590	2.5
162.0666	26.02	-2.15	140453.100	3.0	202156.130	2.0	162.3219	24.02	-3.89	56992.200	3.0	118598.200	3.0
162.0701	26.02	-1.32	138103.120	4.0	199804.810	4.0	162.3234	26.02	-1.87	123455.920	0.0	185061.350	1.0
162.0761	26.02	-2.40	79840.120	7.0	141539.550	6.0	162.3239	25.01	-5.64	9472.970	2.0	71078.180	1.0
162.0780	29.02	-1.85	60804.900	4.5	122503.600	3.5	162.3259	24.01	-4.30	29952.080	.5	91556.540	1.5
162.0788	26.01	-5.99	384.770	3.5	62083.170	4.5	162.3315	25.02	-7.77	112645.310	.5	174247.630	.5
162.0855	26.02	-2.59	120697.100	1.0	182392.550	2.0	162.3324	18.01	-1.92	150476.900	1.5	212076.900	2.5
162.0859	26.01	-5.63	7955.240	3.5	69650.540	2.5	162.3334	24.01	-6.02	19631.280	1.5	81232.910	2.5
162.0882	26.02	-2.60	79844.740	6.0	141539.550	6.0	162.3366	14.00	-2.21	223.157	2.0	61823.550	2.0
162.0901	26.03	-3.35	128190.100	2.5	189884.200	1.5	162.3401	28.01	-4.19	13550.390	3.5	75149.480	4.5
162.0901	28.01	-3.14	54262.630	3.5	115956.710	2.5	162.3411	26.02	-2.67	138103.120	4.0	199701.820	3.0
162.0940	24.02	-1.03	97683.000	3.0	159375.600	3.0	162.3445	30.02	-2.59	234866.900	1.0	296464.300	2.0
162.0947	28.01	-2.53	72375.420	1.5	134067.760	1.5	162.3451	26.02	-2.59	118163.560	2.0	179760.720	3.0
162.0948	28.02	-1.75	82172.900	3.0	143865.200	3.0	162.3484	26.02	-1.61	118163.560	2.0	179759.490	2.0
162.1016	23.02	-2.53	27727.800	3.5	89417.500	3.5	162.3497	14.00	-2.54	0.000	0.0	61595.430	1.0
162.1016	6.01	-2.93	166967.130	.5	228656.840	1.5	162.3548	26.01	-6.38	21711.890	3.5	83305.370	3.5
162.1033	26.01	-3.48	3117.460	1.5	64806.520	.5	162.3570	5.01	-3.39	37340.000	0.0	98932.660	0.0
162.1060	28.01	-4.45	68154.310	1.5	129842.330	2.5	162.3572	27.02	-3.89	108403.400	1.5	169996.000	1.5
162.1071	25.02	-1.04	112645.310	.5	174332.910	1.5	162.3624	28.02	-2.25	83033.800	2.0	144624.400	1.0
162.1122	26.02	-6.00	117521.910	4.0	179207.570	5.0	162.3632	16.03	-1.07	152127.100	1.5	213717.400	1.5
162.1138	25.01	-3.50	43370.370	3.0	105055.430	2.0	162.3636	26.01	-7.71	25981.650	3.5	87571.800	2.5
162.1143	18.01	-2.11	143371.350	1.5	205056.220	1.5	162.3657	26.02	-2.49	77102.430	2.0	138691.810	1.0
162.1148	27.02	-2.14	106764.900	4.5	168449.600	3.5	162.3676	28.01	-3.78	54557.050	4.5	116145.690	3.5
162.1161	26.03	-3.36	128540.400	3.5	190224.600	3.5	162.3680	27.02	-2.56	107297.000	1.5	168885.500	1.5
162.1182	29.02	-3.07	86133.000	.5	147816.400	1.5	162.3706	26.01	-1.42	2837.940	2.5	64425.460	2.5
162.1250	26.01	-8.02	384.770	3.5	62065.570	3.5	162.3713	26.01	-6.06	0.000	4.5	61587.240	5.5
162.1250	24.02	-1.68	96385.900	2.0	158066.700	3.0	162.3776	26.02	-4.40	135316.420	5.0	196901.270	5.0
162.1274	28.01	-4.03	57420.160	2.5	119100.060	1.5	162.3800	5.01	-4.47	37334.000	0.0	98917.930	0.0
162.1278	26.02	-2.98	83358.880	2.0	145038.610	3.0	162.3806	26.01	-3.14	31811.870	2.5	93395.600	2.5
162.1294	26.02	-3.39	79860.420	5.0	141539.550	6.0	162.3832	26.02	-1.99	120826.170	2.0	182408.910	3.0
162.1309	25.02	-2.23	133736.640	5.5	195415.200	4.5	162.3833	15.00	-1.28	11360.800	1.5	72943.500	.5
162.1317	15.00	-1.46	18747.950	1.5	80426.200	1.5	162.3889	25.02	-2.35	133455.640	5.5	195036.200	6.5
162.1322	26.02	-3.33	140750.980	2.0	202429.040	1.0	162.3889	25.02	.93	133455.640	5.5	195036.200	6.5
162.1333	28.01	-2.77	72375.420	1.5	134053.050	2.5	162.3919	28.01	-3.02	72375.420	1.5	133954.850	.5
162.1380	26.01	-3.03	31811.870	2.5	93487.710	3.5	162.3970	23.02	-2.12	99440.100	2.5	161017.600	3.5
162.1384	24.00	-7.80	0.000	3.0	61675.720	2.0	162.3976	26.02	-1.13	140453.100	3.0	202030.380	3.0
162.1387	9.02	-4.70	351519.420	2.5	413195.000	2.5	162.3983	28.02	-4.26	122282.300	2.0	183859.300	3.0
162.1426	29.01	-1.23	71919.930	3.0	133594.050	3.0	162.3985	26.01	-6.59	667.640	2.5	62244.570	1.5
162.1429	25.04	.13	184633.000	3.5	246307.000	3.5	162.3997	15.00	-2.86	18722.650	.5	80299.500	1.5
162.1454	28.01	-2.85	71770.830	2.5	133443.890	2.5	162.3990	5.01	.10	37356.000	0.0	98932.734	0.0
162.1473	26.02	-3.80	117521.910	4.0	179194.220	4.0	162.3990	5.01	-6.61	37340.000	0.0	98916.734	0.0
162.1587	10.03	-4.37	525017.000	2.5	586685.000	1.5	162.4009	16.03	-1.12	152141.000	2.5	213717.400	1.5
162.1636	6.01	-2.63	166990.730	1.5	228656.840	1.5	162.4023	27.01	-5.17	4028.900	4.0	65604.400	3.0
162.1653	26.01	-6.59	25805.320	4.5	87470.800	4.5	162.4091	11.02	-0.06	406200.900	2.5	467773.800	2.5
162.1681	26.01	-7.75	384.770	3.5	62049.170	2.5	162.4135	25.02	-1.16	11111.390	4.5	172682.640	3.5
162.1700	25.02	-6.67	133751.900	3.5	195415.200	4.5	162.4143	25.01	-3.45	43484.500	2.0	105055.430	2.0
162.1723	29.02	-1.29	67016.600	3.5	128679.400	2.5	162.4178	26.02	-2.33	135316.420	5.0	196886.010	6.0
162.1724	26.01	-4.15	30764.440	3.5	92427.220	4.5	162.4194	26.02	-1.63	121241.670	4.0	182810.660	5.0
162.1757	26.02	-3.58	135239.740	4.0	196901.270	5.0	162.4199	28.02	-1.26	53703.700	5.0	115272.500	5.0
162.1791	26.02	-4.93	120826.170	2.0	182486.400	1.0	162.4200	5.01	-4.47	37340.000	0.0	98908.772	0.0
162.1838	14.00	-3.07	223.157	2.0	61881.600	1.0	162.4204	26.02	-1.09	70694.030	5.0	132262.660	6.0
162.1842	28.02	-5.52	71841.900	1.0	133500.200	2.0	162.4263	26.02	-3.70	120826.170	2.0	182392.550	2.0
162.1842	27.02	-4.31	70934.100	2.5	132592.400	1.5	162.4283	26.01	-4.45	30764.460	3.5	92330.100	2.5
162.1847	10.01	-2.96	251522.120	1.5	313180.230	1.5	162.4310	27.02	-2.27	78927.800	3.5	140492.400	4.5
162.1865	26.01	-2.00	2430.080	3.5	64087.500	2.5	162.4313	28.01	-2.95	54262.630	3.5	115827.120	3.5
162.1879	28.01	-1.25	55417.830	3.5	117074.700	3.5	162.4370	5.01	-3.39	37356.000	0.0	98916.329	0.0
162.1880	26.02	-4.20	69788.190	1.0	131449.030	2.0	162.4422	15.00	-2.02	18747.950	1.5	80308.300	2.5
162.1924	28.01	-2.99	10115.660	2.5	71770.830	2.5	162.4483	18.01	-4.75	143371.350	1.5	204929.400	.5
162.1932	26.01	-7.50	667.640	2.5	62322.500	3.5	162.4505	24.02	-3.51	111643.300	4.0	173200.500	5.0
162.1940	26.02	-2.48	120826.170	2.0	182486.400	1.0	162.4557	26.01	-6.81	25981.650	3.5	87536.900	3.5
162.1942	28.02	-1.44	55952.000	2.0	117606.500	3.0	162.4563	26.02	-2.22	125443.580	4.0	186998.600	4.0
162.1981	14.01	-4.87	55325.440	2.5	116978.440	1.5	162.4566	27.02	-3.57	70934.100	2.5	132489.000	2.5
162.1994	11.02	-4.49	406876.000	.5	468528.500	1.5	162.4569	24.02	-2.22	96773.500	1.0	158328.300	2.0
162.2007	10.04	-3.13	640422.000	1.0	702074.000	1.0	162.4587						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
162.5358	26.02	-4.14	124854.040	3.0	186378.940	4.0	162.7429	27.02	-1.71	106764.900	4.5	168211.500	4.5
162.5359	23.02	-2.23	85875.740	3.5	147400.620	4.5	162.7443	15.00	-7.05	11360.800	1.5	72806.900	2.5
162.5366	27.02	-9.82	37021.000	3.5	98545.600	3.5	162.7477	27.01	-3.29	24267.800	1.0	85712.600	2.0
162.5366	24.02	-8.84	95778.600	0.0	157303.200	1.0	162.7478	25.02	-8.81	133455.640	5.5	194900.400	5.5
162.5393	15.00	-2.16	11360.800	1.5	72884.400	2.5	162.7480	24.01	-6.59	11962.000	.5	73406.680	.5
162.5446	18.01	-2.22	150147.620	2.5	211669.180	2.5	162.7570	25.01	-4.64	55696.500	4.0	117137.800	4.0
162.5453	26.02	-3.49	97041.380	3.0	158562.700	4.0	162.7571	8.01	-4.04	214169.740	.5	275611.000	.5
162.5498	17.03	-7.75	251471.400	0.0	312991.000	1.0	162.7571	8.01	-4.36	214169.740	.5	275611.000	1.5
162.5501	29.02	-8.87	86133.000	.5	147652.500	.5	162.7620	26.02	-2.63	125443.580	4.0	186882.980	3.0
162.5504	26.02	-2.25	118163.560	2.0	179682.940	1.0	162.7644	18.01	-3.07	150147.620	2.5	211586.110	2.5
162.5519	28.01	-9.99	53601.190	1.5	115120.000	2.5	162.7651	28.01	-3.13	58705.950	1.5	120144.170	2.5
162.5520	26.01	-4.44	2430.080	3.5	63948.840	4.5	162.7662	23.02	-0.06	102961.280	3.5	164399.100	3.5
162.5532	14.00	-2.67	77.115	1.0	61595.430	1.0	162.7686	23.02	-1.32	102961.280	3.5	164398.200	4.5
162.5533	26.01	-4.22	30764.460	3.5	92282.760	3.5	162.7712	26.02	-4.86	121008.780	3.0	182444.700	3.0
162.5574	26.01	-2.42	31811.870	2.5	93328.600	1.5	162.7735	15.00	-3.55	18747.950	1.5	80183.000	2.5
162.5583	26.01	-7.56	26055.400	2.5	87571.800	2.5	162.7739	24.01	-5.26	19798.010	2.5	81232.910	2.5
162.5597	26.02	.01	121941.290	4.0	183457.150	4.0	162.7746	14.00	-1.46	77.115	1.0	61511.770	1.0
162.5597	18.01	-1.34	150147.620	2.5	211663.500	3.5	162.7747	28.02	-9.99	71383.700	2.0	132818.300	2.0
162.5601	25.01	-4.24	27546.900	6.0	89062.600	5.0	162.7769	26.02	-3.75	118442.920	3.0	179876.710	4.0
162.5607	13.01	-1.30	59849.700	1.0	121365.200	0.0	162.7840	24.02	-2.08	56992.200	3.0	118423.300	2.0
162.5609	26.02	-1.54	121941.290	4.0	183456.690	3.0	162.7853	27.02	-1.11	78927.800	3.5	140358.400	4.5
162.5630	27.02	-2.53	77622.900	4.5	139137.500	5.5	162.7859	26.02	-2.28	118246.520	3.0	179676.890	2.0
162.5641	26.02	-1.73	118246.520	3.0	179760.720	3.0	162.7871	26.02	-1.48	73849.100	1.0	135279.040	2.0
162.5649	26.02	-1.69	138187.930	3.0	199701.820	3.0	162.8000	15.00	-1.81	18747.950	1.5	80173.000	.5
162.5661	9.02	-3.27	391257.420	2.5	452770.850	3.5	162.8011	18.01	-4.06	150147.620	2.5	211572.270	1.5
162.5664	26.02	-2.14	118163.560	2.0	179676.890	2.0	162.8015	26.02	-1.08	128371.530	0.0	189796.030	1.0
162.5666	25.01	-5.69	27583.300	4.0	89096.560	4.0	162.8052	30.02	-3.82	235452.500	2.0	296875.600	2.0
162.5673	26.02	-2.73	118246.520	3.0	179759.490	2.0	162.8094	29.02	-2.22	78779.400	1.5	140200.900	1.5
162.5681	26.01	-6.59	0.000	4.5	61512.670	4.5	162.8120	26.01	-4.86	22939.350	2.5	84359.900	1.5
162.5705	14.00	-1.20	0.000	0.0	61511.770	1.0	162.8128	28.01	-3.43	66571.340	2.5	127991.560	3.5
162.5713	26.02	-2.31	118246.520	3.0	179757.980	4.0	162.8182	18.01	-4.46	147503.020	1.5	208921.200	1.5
162.5761	28.01	-2.02	58493.210	2.5	120002.860	3.5	162.8227	28.01	-1.72	58493.210	2.5	119909.720	1.5
162.5768	27.02	-1.72	77411.600	5.5	138921.000	4.5	162.8258	28.01	-2.68	55417.830	3.5	116833.150	4.5
162.5794	26.02	-2.56	123552.950	1.0	185061.350	1.0	162.8268	26.02	-2.23	118246.520	3.0	179661.480	3.0
162.5796	25.01	-5.05	27588.230	3.0	89096.560	4.0	162.8273	26.02	-4.92	124854.040	3.0	186268.790	2.0
162.5805	15.00	-1.37	11376.400	2.5	72884.400	2.5	162.8296	29.02	.05	63143.600	2.5	124557.500	3.5
162.5817	26.02	-1.33	121949.620	5.0	183457.150	4.0	162.8303	26.02	-1.09	83429.610	6.0	144843.240	5.0
162.5834	28.01	-4.39	53601.190	1.5	115108.090	2.5	162.8387	26.02	-2.23	118350.240	4.0	179760.720	3.0
162.5907	26.01	-1.78	667.640	2.5	62171.760	3.5	162.8397	27.02	-2.75	73286.000	4.5	134696.100	5.5
162.5921	27.02	-2.56	107507.600	.5	169011.200	.5	162.8401	26.02	-2.99	63494.000	3.0	124903.920	2.0
162.5926	24.02	-2.80	97120.300	3.0	158623.700	4.0	162.8401	26.02	-1.83	121008.780	3.0	182418.700	4.0
162.6003	30.02	-2.75	235452.500	2.0	296953.000	2.0	162.8416	26.02	-3.73	63494.560	2.0	124903.920	2.0
162.6009	28.01	-4.42	68735.980	2.5	130236.260	2.5	162.8424	26.02	-4.10	83161.480	4.0	144570.530	3.0
162.6059	25.01	-4.17	43557.030	1.0	105055.430	2.0	162.8448	24.01	-4.11	20024.180	3.5	81432.360	3.5
162.6064	27.02	-3.56	77472.300	2.5	138970.500	1.5	162.8459	26.02	-3.02	118350.240	4.0	179757.980	4.0
162.6071	26.02	-2.57	118163.560	2.0	179661.480	3.0	162.8481	24.02	-2.95	96921.400	2.0	158328.300	2.0
162.6074	28.02	-5.56	71841.900	1.0	133339.700	1.0	162.8493	28.01	-1.55	14995.570	2.5	76402.030	2.5
162.6096	12.02	-2.32	474655.000	2.0	536152.000	1.0	162.8528	26.02	-2.54	140750.980	2.0	202156.130	2.0
162.6135	29.02	-1.15	63886.300	1.5	125381.800	2.5	162.8540	24.02	-2.33	56650.500	2.0	118055.200	1.0
162.6151	27.02	-2.54	106954.700	2.5	168449.600	3.5	162.8562	26.02	-2.35	121008.780	3.0	182412.650	4.0
162.6237	25.01	-4.22	27570.950	5.0	89062.600	5.0	162.8570	24.01	-5.96	12032.720	1.5	73436.270	2.5
162.6251	9.02	-1.95	391257.420	2.5	452748.540	2.5	162.8607	23.02	-3.84	91710.430	3.5	153112.600	3.5
162.6263	25.01	-5.17	27588.230	3.0	89078.900	2.0	162.8627	28.02	-2.11	79143.300	2.0	140544.700	3.0
162.6281	26.02	-1.08	121941.290	4.0	183431.280	5.0	162.8659	30.02	-3.65	235452.500	2.0	296852.700	1.0
162.6284	25.01	-6.05	27589.030	2.0	89078.900	2.0	162.8661	26.02	-2.90	121008.780	3.0	182408.910	3.0
162.6293	26.02	-3.50	73727.640	2.0	135217.170	1.0	162.8664	10.03	-3.73	648060.000	1.5	709460.000	1.5
162.6303	26.01	-6.33	25981.650	3.5	87470.800	4.5	162.8664	10.03	-2.77	648060.000	1.5	709460.000	2.5
162.6312	28.01	.24	73893.730	1.5	135382.530	1.5	162.8677	26.02	-3.37	124903.920	2.0	186303.440	3.0
162.6318	26.01	-2.99	131999.120	3.5	93487.710	3.5	162.8719	26.02	-2.38	118350.240	4.0	179748.170	5.0
162.6345	15.00	-1.13	18722.650	.5	80210.200	.5	162.8719	26.01	-7.08	667.640	2.5	62065.570	3.5
162.6366	28.01	-1.61	72375.420	1.5	133862.210	1.5	162.8758	26.01	-2.72	31999.120	3.5	93395.600	2.5
162.6396	26.01	-2.64	31999.120	3.5	93484.750	4.5	162.8795	20.02	-4.18	279353.640	1.0	340748.720	2.0
162.6416	29.02	-0.03	62065.000	3.5	123549.900	4.5	162.8836	18.01	-1.63	144709.910	.5	206103.450	1.5
162.6440	26.01	-7.16	667.640	2.5	62151.610	2.5	162.8846	26.02	-1.97	118355.010	6.0	179748.170	5.0
162.6484	28.01	-2.76	72375.420	1.5	133857.730	.5	162.8879	27.02	-2.62	107297.000	1.5	168688.900	2.5
162.6488	15.00	-1.06	18722.650	.5	80204.800	1.5	162.8887	27.02	-4.81	77383.100	3.5	138774.700	2.5
162.6501	26.02	.13	121949.620	5.0	183431.280	5.0	162.8980	27.01	-3.26	0.000	4.0	61388.100	4.0
162.6506	26.01	-7.29	26055.400	2.5	87536.900	3.5	162.8986	30.02	-8.82	192763.700	3.0	254151.600	2.0
162.6529	25.00	-5.65	0.000	2.5	61480.600	3.5	162.8993	28.02	-1.14	82172.900	3.0	143560.500	2.0
162.6564	25.01	-5.12	27583.300	4.0	89062.600	5.0	162.9025	23.01	-3.55	14461.730	3.0	75848.130	3.0
162.6637	28.01	-3.09	54262.630	3.5	115739.150	4.5	162.9079	26.02	-5.45	21462.200	4.0	82846.590	4.0
162.6666	24.01	-4.62	25035.640	.5	86511.080	1.5	162.9082	26.02	-2.56	118246.520	3.0	179630.770	4.0
162.6719	24.01	-3.71	25033.950	3.5	86507.380	2.5	162.9095	26.02	-3.75	121008.780	3.0	182392.550	2.0
162.6758	26.02	-3.61	121008.780	3.0	182480.720	2.0	162.9126	25.02	1.00	133804.280	6.5	195186.900	7.5
162.6771	28.01	-3.46	53365.170	4.5	114836.630	3.5	162.9144	26.01	-6.36	862.630	1.5	62244.570	1.5
162.6777	25.00	-6.77	0.000	2.5	61471.230	2.5	162.9155	26.01	-4.91	667.640	2.5	62049.170	2.5
162.6842	30.02	-3.64	235452.500	2.0	296921.300	3.0	162.9155	8.01	-4.30	214229.480	1.5	275611.000	.5
162.6883	24.01	-4.94	25043.100	1.5	86511.080	1.5	162.9						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
162.9543	27.02	-4.54	108403.400	1.5	169770.300	2.5	163.1678	24.02	-4.56	96148.500	1.0	157435.100	2.0
162.9554	24.02	-2.64	97097.100	4.0	158463.600	3.0	163.1753	27.02	-2.17	78927.800	3.5	140211.600	2.5
162.9588	15.00	-2.25	11376.400	2.5	72741.600	1.5	163.1761	28.02	-1.42	82277.000	1.0	143560.500	2.0
162.9597	26.02	-3.14	124903.920	2.0	185268.790	2.0	163.1822	26.02	-1.77	73935.960	0.0	135217.170	1.0
162.9608	23.02	-1.98	103034.650	4.5	164399.100	3.5	163.1840	26.02	-1.54	118350.240	4.0	179630.770	4.0
162.9615	26.02	-1.81	123697.180	2.0	185061.350	1.0	163.1870	26.02	-3.73	140750.980	2.0	202030.380	3.0
162.9616	18.01	-3.79	147227.970	.5	208592.110	.5	163.1903	26.02	-2.56	105929.160	3.0	167207.300	4.0
162.9625	18.01	-3.58	147227.970	.5	208591.780	1.5	163.1905	8.01	-4.54	203942.210	.5	265220.300	1.5
162.9632	23.02	.17	103034.650	4.5	164398.200	4.5	163.1977	25.02	-.64	112645.310	.5	173920.690	1.5
162.9657	8.01	-2.29	188888.380	.5	250251.000	.5	163.2064	25.01	-4.23	9472.970	2.0	70745.080	3.0
162.9657	8.01	-2.78	188888.380	.5	250251.000	1.5	163.2104	28.01	-4.01	68965.850	1.5	130236.260	2.5
162.9673	27.02	-.65	79425.300	2.5	140787.300	2.5	163.2118	28.01	-3.76	54557.050	4.5	115827.120	3.5
162.9675	26.02	-3.81	121468.820	5.0	182830.760	6.0	163.2137	24.01	-3.95	30156.940	3.5	91426.310	2.5
162.9710	26.02	-1.91	125637.980	3.0	186998.600	4.0	163.2139	27.02	-8.08	37021.000	3.5	98290.300	4.5
162.9725	26.02	-3.86	63494.000	3.0	124854.040	3.0	163.2163	30.02	-2.30	235452.500	2.0	296720.900	3.0
162.9730	28.01	-3.42	72375.420	1.5	133735.260	2.5	163.2163	28.02	-.98	55406.100	3.0	116674.500	4.0
162.9761	27.01	-3.99	3350.500	5.0	64709.200	5.0	163.2169	28.01	-1.11	53601.190	1.5	114869.350	1.5
162.9769	27.02	-2.54	110371.200	2.5	171729.600	2.5	163.2186	26.01	-5.39	977.030	.5	62244.570	1.5
162.9773	25.02	-.68	113078.340	1.5	174436.590	2.5	163.2248	17.03	-.76	251725.800	1.0	312991.000	1.0
162.9804	25.01	-.86	43557.030	1.0	104914.180	0.0	163.2253	24.02	-3.74	97358.700	4.0	158623.700	4.0
162.9811	30.02	-.81	192763.700	3.0	254120.500	3.0	163.2282	24.01	-7.39	12148.000	2.5	73411.940	1.5
162.9840	18.01	-.66	149179.170	3.5	210534.900	4.5	163.2283	26.02	-3.99	83237.860	3.0	144501.740	2.0
162.9842	25.01	-.56	38542.960	3.0	99898.600	4.0	163.2306	26.01	-5.29	862.630	1.5	62125.660	1.5
162.9859	25.01	-1.36	30664.810	1.0	92039.800	2.0	163.2348	15.00	-1.14	18747.950	1.5	80009.400	.5
162.9862	26.02	-2.26	70725.010	3.0	132079.910	3.0	163.2363	23.01	-.75	2968.220	4.0	64229.100	5.0
162.9896	24.02	-2.62	96713.100	3.0	158066.700	3.0	163.2371	29.01	-3.78	72724.000	2.0	133984.600	3.0
162.9915	27.01	-9.03	19189.900	4.0	80542.800	3.0	163.2404	18.01	-3.44	149179.170	3.5	210438.500	4.5
162.9943	25.01	-.67	38542.960	3.0	99894.800	3.0	163.2423	26.01	-7.46	8391.920	2.5	69650.540	2.5
162.9948	14.00	-.48	223.157	2.0	61574.814	3.0	163.2432	26.03	.31	128966.300	4.5	190224.600	3.5
162.9961	26.02	-3.36	70728.750	4.0	132079.910	3.0	163.2461	15.00	-4.63	11360.800	1.5	72618.000	.5
163.0004	25.01	-1.09	38542.960	3.0	99892.500	2.0	163.2485	28.01	-1.71	72985.650	1.5	134241.960	.5
163.0024	24.02	-2.34	97683.000	3.0	159031.800	2.0	163.2531	25.02	-.52	113078.340	1.5	174332.910	1.5
163.0047	18.01	-2.91	149179.170	3.5	210527.100	2.5	163.2535	26.02	-1.16	123697.180	2.0	184951.620	3.0
163.0063	26.02	-1.30	118557.250	5.0	179904.560	6.0	163.2558	25.02	-1.53	111601.450	5.5	172855.020	4.5
163.0075	26.02	-3.43	135554.410	4.0	196901.270	5.0	163.2574	26.02	-2.24	123750.390	3.0	185003.950	2.0
163.0085	24.02	-3.74	111854.000	5.0	173200.500	5.0	163.2608	30.02	-3.68	235623.900	3.0	296875.600	2.0
163.0103	24.02	-3.06	97097.100	4.0	158442.900	4.0	163.2616	24.02	-.22	97076.900	1.0	158328.300	2.0
163.0106	28.02	-1.98	84604.800	1.0	145950.500	1.0	163.2616	24.02	-.23	96385.900	2.0	157637.300	3.0
163.0170	24.02	-3.27	97120.300	3.0	158463.600	3.0	163.2619	23.02	-.96	85875.740	3.5	147127.000	2.5
163.0176	28.01	-4.31	68131.210	3.5	129474.270	3.5	163.2638	25.01	-6.15	27589.030	2.0	88839.600	1.0
163.0178	27.02	-2.80	70934.100	2.5	132277.100	3.5	163.2665	26.01	-1.25	2837.940	2.5	64087.500	2.5
163.0178	10.04	-2.65	640422.000	1.0	701765.000	2.0	163.2681	24.01	-4.41	30307.600	1.5	91556.540	1.5
163.0209	26.02	-4.83	121468.820	.5	182810.660	5.0	163.2690	23.01	-2.61	2808.760	3.0	64057.390	3.0
163.0222	26.01	-6.54	384.770	3.5	61726.090	3.5	163.2691	26.02	-1.45	73727.640	2.0	134976.220	3.0
163.0253	23.02	-5.44	43942.490	1.5	105282.650	2.5	163.2694	26.02	-1.59	84369.920	2.0	145618.390	2.0
163.0271	23.03	-1.83	155565.500	1.0	216905.000	1.0	163.2709	27.01	-2.56	24886.500	2.0	86134.400	1.0
163.0311	11.05	-1.19	872577.000	1.0	933915.000	2.0	163.2712	27.02	-2.45	106764.900	4.5	168012.700	5.5
163.0321	24.01	-5.63	12148.000	2.5	73485.600	3.5	163.2748	20.02	-4.30	324660.470	3.0	385906.900	2.0
163.0337	26.02	-4.48	140693.360	3.0	202030.380	3.0	163.2786	26.02	-2.07	125637.980	3.0	186882.980	3.0
163.0356	26.02	-2.08	118557.250	5.0	179893.560	5.0	163.2861	25.03	-1.75	111710.400	2.0	172952.600	3.0
163.0364	56.01	-5.46	0.000	0.0	61335.996	0.0	163.2888	27.01	-4.94	0.000	4.0	61240.800	3.0
163.0375	28.01	-2.93	53634.620	1.5	114970.190	.5	163.2901	26.02	-4.65	168329.670	3.0	229570.360	2.0
163.0430	25.02	-3.38	71564.210	1.5	132897.740	2.5	163.2913	28.01	-3.14	53634.620	1.5	114874.880	2.5
163.0452	26.02	-2.86	83237.860	3.0	144570.530	3.0	163.2933	26.02	-3.12	73849.100	1.0	135088.600	0.0
163.0547	30.02	-3.97	235623.900	3.0	296953.000	2.0	163.2951	26.01	-4.17	32909.870	5.5	94148.710	4.5
163.0561	26.01	-3.93	23031.300	1.5	84359.900	1.5	163.2958	28.01	-2.63	72375.420	1.5	133613.990	1.5
163.0603	28.02	-.69	82826.900	4.0	144153.900	4.0	163.3072	28.01	-4.85	57080.550	3.5	118314.820	2.5
163.0645	28.01	-4.58	68154.310	1.5	129479.730	1.5	163.3076	26.01	-4.97	22637.190	4.5	83871.310	4.5
163.0658	26.01	-3.92	30764.460	3.5	92089.410	3.5	163.3080	26.02	-2.13	118442.920	3.0	179676.890	2.0
163.0659	25.01	-4.24	14593.820	3.0	75918.730	2.0	163.3135	25.02	-.74	133804.280	6.5	195036.200	6.5
163.0720	24.02	-4.34	97120.300	3.0	158442.900	4.0	163.3135	25.02	-.54	133804.280	6.5	195036.200	6.5
163.0728	23.02	-1.12	85524.000	2.5	146846.320	1.5	163.3156	26.02	-4.63	76956.790	3.0	138187.930	3.0
163.0734	23.01	-1.55	2808.760	3.0	64130.840	4.0	163.3197	26.02	-3.21	118350.240	4.0	179579.830	5.0
163.0804	26.02	-3.79	118557.250	5.0	179876.710	4.0	163.3200	29.02	-1.00	85446.400	1.5	146675.900	.5
163.0811	26.02	-2.19	135582.080	6.0	196901.270	5.0	163.3210	27.02	-8.92	37316.500	2.5	98545.600	3.5
163.0819	23.01	-2.24	2968.220	4.0	64287.100	5.0	163.3219	23.02	-3.48	91710.430	3.5	152939.200	2.5
163.0825	28.01	-4.95	75917.630	3.5	137236.280	3.5	163.3225	14.00	-1.65	77.115	1.0	61305.670	1.0
163.0845	28.02	-2.92	75646.900	4.0	136964.800	3.0	163.3243	25.02	-2.78	71831.980	2.5	133059.840	3.5
163.0848	26.02	-2.56	118442.920	3.0	179760.720	3.0	163.3289	26.02	-3.80	140693.360	3.0	201919.530	4.0
163.0881	26.02	-3.67	118442.920	3.0	179759.440	2.0	163.3309	25.01	-5.30	27546.900	6.0	88772.300	5.0
163.0921	26.02	-2.33	118442.920	3.0	179757.980	4.0	163.3325	26.02	-1.74	118355.010	6.0	179579.830	5.0
163.0931	28.01	-3.23	55417.830	3.5	116732.510	2.5	163.3326	6.01	-2.09	166967.130	.5	228191.900	1.5
163.0939	26.01	-3.51	32875.630	6.5	94190.020	5.5	163.3328	14.00	-1.75	223.157	2.0	61447.860	2.0
163.0951	26.02	-2.46	124954.880	1.0	186268.790	2.0	163.3425	6.01	-1.71	166990.730	1.5	228211.800	2.5
163.0954	27.02	-.76	82363.300	4.5	143677.100	3.5	163.3441	10.01	-3.04	252798.480	.5	314018.940	.5
163.0967	26.02	-8.09	20688.400	1.0	82001.730	2.0	163.3450	27.02	-4.01	79425.300	2.5	140645.400	3.5
163.0975	24.04	-1.50	167184.000	1.0	228497.000	2.0	163.3492	26.02	-1.68	118442.920	3.0	179661.480	3.0
163.1022	26.02	-2.42	1183										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
163.4022	24.00	-6.48	0.000	3.0	61198.680	3.0	163.6327	26.01	-1.03	862.630	1.5	61975.110	1.5
163.4123	24.02	-1.03	96713.100	3.0	157908.000	4.0	163.6353	26.02	-4.74	87901.870	3.0	149013.360	4.0
163.4140	18.01	-1.60	150674.900	1.5	211669.180	2.5	163.6361	18.01	-2.69	150474.900	1.5	211586.110	2.5
163.4177	27.02	-3.73	78434.300	.5	139627.200	1.5	163.6379	26.02	-2.65	122346.610	3.0	183457.150	4.0
163.4183	26.02	-2.11	139463.360	5.0	200656.020	6.0	163.6391	26.02	-3.00	122346.610	3.0	183456.690	3.0
163.4229	26.02	-2.93	118557.250	5.0	179748.170	5.0	163.6396	8.02	-2.64	297557.500	1.0	358667.400	1.0
163.4242	26.02	-2.56	118686.250	4.0	179876.710	4.0	163.6402	26.02	-3.95	168420.990	2.0	229530.670	1.0
163.4244	26.02	-1.05	128605.650	1.0	189796.030	1.0	163.6448	24.00	-6.82	0.000	3.0	61107.950	2.0
163.4254	25.03	-3.29	188184.800	6.0	249374.800	6.0	163.6457	23.02	-0.05	85875.740	3.5	146983.380	2.5
163.4260	25.02	-1.11	112645.310	.5	173835.070	.5	163.6475	28.01	-4.18	10663.890	1.5	17170.830	2.5
163.4281	25.01	-5.79	27583.300	4.0	88772.300	5.0	163.6483	26.02	-2.03	105895.350	1.0	167002.000	2.0
163.4311	26.02	-3.83	118442.920	3.0	179630.770	4.0	163.6491	28.01	-3.21	68735.980	2.5	129842.330	2.5
163.4311	6.01	-2.79	166990.730	1.5	228178.600	.5	163.6530	24.02	-2.67	97358.700	4.0	158463.600	3.0
163.4346	26.01	-1.39	862.630	1.5	62049.170	2.5	163.6556	25.02	-0.19	133804.280	6.5	194908.200	5.5
163.4451	8.01	-2.62	189068.370	1.5	250251.000	.5	163.6602	29.01	-1.73	72724.000	2.0	133826.200	2.0
163.4451	8.01	-1.94	189068.370	1.5	250251.000	1.5	163.6686	25.01	-7.00	29919.220	2.0	91018.300	3.0
163.4465	28.01	-2.17	54557.050	4.5	115739.150	4.5	163.6732	18.01	-2.94	150474.900	1.5	211572.270	1.5
163.4478	24.01	-6.96	12303.980	3.5	73485.600	3.5	163.6757	24.01	-6.14	21822.860	2.5	82920.030	1.5
163.4481	8.03	-2.99	513187.200	2.5	574368.700	2.5	163.6738	20.02	-3.83	324660.470	3.0	385757.600	3.0
163.4481	8.03	-1.84	513187.200	2.5	574368.700	1.5	163.6742	30.02	-3.73	235623.900	3.0	296720.900	3.0
163.4524	26.02	-3.54	168329.670	3.0	229509.560	3.0	163.6753	25.01	-0.27	38806.530	4.0	99903.100	5.0
163.4551	26.02	-2.10	105906.230	2.0	167085.120	3.0	163.6765	25.02	-3.25	133804.280	6.5	194900.400	5.5
163.4551	26.02	-0.72	128605.650	1.0	189784.520	2.0	163.6774	24.01	-4.68	21824.250	.5	82920.030	1.5
163.4569	14.03	.04	254127.080	2.5	315305.280	3.5	163.6775	26.02	-3.11	105906.230	2.0	167002.000	2.0
163.4600	26.02	-2.22	121241.670	4.0	182418.700	4.0	163.6784	27.02	-2.78	110371.200	2.5	171466.600	2.5
163.4621	14.03	.15	254129.030	3.5	315305.280	4.0	163.6784	27.02	-2.78	110371.200	2.5	171466.600	2.5
163.4621	14.03	-1.39	254129.030	3.5	315305.280	3.5	163.6784	27.02	-2.65	110371.200	2.5	171466.600	2.5
163.4625	24.02	-1.85	57422.100	4.0	118598.200	3.0	163.6790	24.01	-4.13	21824.250	1.5	82920.030	1.5
163.4626	6.01	-2.08	167035.710	2.5	228211.800	2.5	163.6813	26.02	-3.89	83237.860	3.0	144332.210	4.0
163.4628	11.05	-1.17	873287.000	2.0	934463.000	1.0	163.6816	23.02	-0.75	86306.400	4.5	147400.620	4.5
163.4715	28.01	-4.70	55018.710	2.5	116191.470	2.5	163.6847	25.02	-2.34	72183.330	3.5	133278.400	4.5
163.4719	23.02	-4.48	44110.040	2.5	105282.650	2.5	163.6849	26.02	-3.22	168477.360	1.0	229570.360	2.0
163.4733	28.01	-4.47	58493.210	2.5	119665.290	2.5	163.6874	26.02	-2.68	168329.670	3.0	229421.730	4.0
163.4747	25.02	-1.12	133736.640	5.5	194908.200	5.5	163.6874	25.01	-0.79	38806.530	4.0	99898.600	4.0
163.4762	26.02	-2.82	121241.670	4.0	182412.650	4.0	163.6881	27.02	-4.56	46438.300	4.5	107530.100	3.5
163.4769	26.02	-3.09	83161.480	4.0	144332.210	4.0	163.6940	28.02	-2.21	71067.000	3.0	132156.600	4.0
163.4778	8.03	-1.69	513198.300	3.5	574368.700	2.5	163.6943	28.01	-3.44	70706.770	1.5	131796.260	2.5
163.4807	25.02	-1.08	113078.340	1.5	174247.630	.5	163.6951	23.01	-3.07	2968.220	4.0	64057.390	3.0
163.4858	24.02	-2.53	112398.500	4.0	173565.900	5.0	163.6963	26.02	-2.43	73849.100	1.0	134937.840	2.0
163.4862	26.02	-1.77	121241.670	4.0	182408.910	3.0	163.6967	26.02	-2.86	168420.990	2.0	229509.560	3.0
163.4876	28.01	-3.52	68131.210	3.5	129297.910	3.5	163.6975	25.01	-1.52	38806.530	4.0	99894.800	3.0
163.4896	26.02	-4.92	135735.310	5.0	196901.270	5.0	163.6975	22.01	-5.67	9518.050	2.5	70606.350	2.5
163.4955	25.02	-4.00	133736.640	5.5	194900.400	5.5	163.7000	23.02	-2.94	94714.250	.5	155801.600	1.5
163.4974	28.01	-3.59	58493.210	2.5	119656.250	3.5	163.7050	26.02	-3.91	77102.430	2.0	138187.930	3.0
163.4986	23.01	-0.92	2968.220	4.0	64130.840	4.0	163.7080	23.02	-1.05	98062.220	1.5	159146.600	2.5
163.5005	28.01	-2.25	51557.850	3.5	112719.750	3.5	163.7085	24.02	-1.96	97358.700	4.0	158442.900	4.0
163.5007	26.02	-3.23	135739.470	6.0	196901.270	5.0	163.7130	14.00	-4.36	223.157	2.0	61305.670	1.0
163.5034	28.01	-4.02	70635.460	2.5	131796.260	2.5	163.7141	28.01	-1.43	72985.650	1.5	134067.760	1.5
163.5088	27.02	-2.32	107530.100	3.5	168688.900	2.5	163.7294	23.02	-2.65	99941.200	3.5	161017.600	3.5
163.5122	24.02	.01	97306.100	2.0	158463.600	3.0	163.7345	26.02	-4.05	118686.250	4.0	179760.720	3.0
163.5130	26.02	-1.35	83429.610	6.0	144586.830	5.0	163.7371	26.02	-2.33	118557.250	5.0	179630.770	4.0
163.5138	26.01	-6.09	0.000	4.5	61156.900	3.5	163.7398	26.01	-0.61	1872.600	4.5	62945.120	3.5
163.5152	27.02	-1.86	110371.200	2.5	171527.600	3.5	163.7419	26.02	-2.06	118686.250	4.0	179757.980	4.0
163.5157	6.01	-3.01	167035.710	2.5	228191.900	1.5	163.7437	28.01	-0.35	78893.730	1.5	134964.780	1.5
163.5161	25.01	-4.90	48317.850	4.0	109473.900	4.0	163.7462	23.01	-1.36	8841.970	3.0	69912.100	4.0
163.5164	26.02	-3.55	105929.160	3.0	167085.120	3.0	163.7506	28.01	-4.90	72375.420	1.5	133443.890	2.5
163.5164	9.02	-4.21	380250.520	2.5	441406.460	3.5	163.7535	28.01	-1.46	72985.650	1.5	134053.050	2.5
163.5186	14.02	-3.28	153377.050	1.0	214532.170	1.0	163.7564	23.01	.22	3162.800	5.0	64229.100	5.0
163.5197	24.02	-1.31	96148.500	1.0	157303.200	1.0	163.7579	25.02	-3.80	71831.980	2.5	132897.740	2.5
163.5221	26.02	-2.28	125637.980	3.0	186791.780	2.0	163.7589	28.01	.94	70358.940	4.5	131424.320	5.5
163.5235	28.01	-3.37	68131.210	3.5	129284.500	2.5	163.7589	10.01	-2.81	252953.540	1.5	314018.940	.5
163.5304	26.02	-4.27	135735.310	5.0	196886.010	6.0	163.7682	26.02	-1.57	118686.250	4.0	179748.170	5.0
163.5340	26.02	-3.24	168420.990	2.0	229570.360	2.0	163.7707	26.01	-4.54	22810.330	3.5	83871.310	4.5
163.5345	25.01	-5.01	29869.110	2.0	91018.300	3.0	163.7732	23.02	-2.77	92052.550	4.5	153112.600	3.5
163.5348	28.01	-2.84	55018.710	2.5	116167.760	1.5	163.7775	26.01	-4.70	667.640	2.5	61726.090	3.5
163.5360	26.01	-4.68	977.030	.5	62125.660	1.5	163.7777	23.01	-0.01	2968.220	4.0	64026.600	4.0
163.5391	26.01	-4.43	7955.240	3.5	69102.690	2.5	163.7778	26.01	-4.63	22810.330	3.5	83868.650	2.5
163.5411	26.02	-6.02	21699.900	3.0	82846.590	4.0	163.7830	24.00	-9.13	0.000	3.0	61056.410	4.0
163.5414	26.02	-1.45	139509.440	5.0	200656.020	6.0	163.7913	26.02	-3.22	168477.360	1.0	229530.670	1.0
163.5421	26.02	-3.04	76956.790	3.0	138103.120	4.0	163.7938	23.01	-0.77	2604.820	1.0	63657.200	2.0
163.5449	24.02	-3.35	96921.400	2.0	158066.700	3.0	163.7975	27.01	-4.81	3350.500	5.0	64401.500	4.0
163.5465	24.02	.11	97079.100	4.0	158241.800	5.0	163.7991	25.01	-4.97	32818.100	0.0	93868.500	1.0
163.5481	23.02	-1.63	99941.200	3.5	161085.300	4.5	163.7994	25.02	-0.91	134136.600	7.5	195186.900	7.5
163.5485	9.02	-1.82	391626.910	3.5	452770.850	3.5	163.8007	27.02	-3.09	47003.100	3.5	108052.900	2.5
163.5514	26.02	-2.16	83358.880	2.0	144501.740	2.0	163.8023	24.02	-2.56	96385.900	2.0	157435.100	2.0
163.5522	26.02	-3.29	79860.420	5.0	141002.990	4.0	163.8067	18.01	-3.69	147875.860	2.5	208923.410	2.5
163.5524	27.02	-0.96	76518.900	5.5	137661.400	4.5	163.8127	18.01	-4.85	147875.860	2.5	208921.200	1.5
163.5537	26.02	-2.18	135739.470	6.0	19								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
163.9027	30.02	-4.22	235452.500	2.0	296464.300	2.0	164.1721	22.01	-1.82	8710.470	1.5	69622.150	2.5
163.9040	26.02	-1.59	125443.580	4.0	186454.890	5.0	164.1736	25.01	-4.27	49517.580	5.0	110428.700	4.0
163.9044	18.01	-4.74	142186.270	4.5	203197.440	3.5	164.1739	26.02	-2.39	121468.820	5.0	182379.860	5.0
163.9084	15.00	-4.18	11376.400	2.5	72386.100	2.5	164.1755	26.01	-7.71	8391.920	2.5	69302.350	1.5
163.9126	23.01	-1.16	2808.760	3.0	63816.900	3.0	164.1818	9.02	-3.41	380250.520	2.5	441158.600	1.5
163.9199	24.02	-2.02	97618.300	5.0	158623.700	4.0	164.1844	28.01	-4.00	70748.700	4.5	131655.830	4.5
163.9237	23.01	-1.47	8640.210	2.0	69644.200	3.0	164.1886	24.01	-4.97	25033.950	3.5	85939.500	4.5
163.9241	26.02	-1.28	120826.170	2.0	181830.020	3.0	164.1906	24.00	-9.69	0.000	3.0	60904.840	3.0
163.9277	26.02	-1.83	120826.170	2.0	181828.660	2.0	164.1933	25.01	-4.13	33278.390	3.0	94182.200	3.0
163.9282	25.01	-3.85	31514.350	4.0	92516.650	4.0	164.1949	25.02	-4.35	72183.330	3.5	133086.570	4.5
163.9300	28.01	-4.68	70635.460	2.5	131637.100	3.5	164.1961	25.00	-6.03	0.000	2.5	60902.800	3.5
163.9307	25.01	-3.28	49427.320	4.0	110428.700	4.0	164.2047	25.02	0.00	134136.600	7.5	195036.200	6.5
163.9320	30.02	-1.19	83500.300	2.0	144501.200	3.0	164.2047	25.02	-3.91	134136.600	7.5	195036.200	6.5
163.9344	24.04	-0.01	167497.000	2.0	228497.000	2.0	164.2054	25.02	-2.20	113676.530	2.5	174575.870	3.5
163.9359	28.01	-2.82	56075.260	2.5	117074.700	3.5	164.2115	25.02	-1.94	116580.170	1.5	177477.230	2.5
163.9396	26.01	-1.18	977.030	4.5	61975.110	1.5	164.2117	10.04	-1.85	640868.000	2.0	701765.000	2.0
163.9468	25.02	-2.03	116692.140	2.5	177687.540	3.5	164.2177	26.01	-1.08	31387.980	2.5	92282.760	3.5
163.9497	26.01	-1.96	31364.470	1.5	92358.800	1.5	164.2180	28.01	-2.55	57420.160	2.5	118314.820	2.5
163.9604	26.01	-1.47	31368.450	4.5	92358.800	1.5	164.2209	29.02	-6.63	60804.900	4.5	121698.500	5.5
163.9622	18.01	-3.45	151087.250	2.5	212076.900	2.5	164.2209	26.02	-2.64	118686.250	4.0	179579.830	5.0
163.9627	26.01	-7.00	0.000	4.5	60989.480	4.5	164.2233	25.03	-1.26	11506.000	1.0	172398.700	2.0
163.9645	24.01	-6.01	12496.790	4.5	73485.600	3.5	164.2247	25.02	-2.87	85173.880	1.5	146066.070	1.5
163.9667	27.02	-3.17	47415.400	2.5	108403.400	1.5	164.2262	26.02	-4.56	118867.870	1.0	179759.490	2.0
163.9678	26.01	-8.16	26352.800	4.5	87340.400	5.5	164.2282	27.02	-1.34	78927.800	3.5	139818.700	3.5
163.9760	18.01	-2.15	151087.250	2.5	212071.800	3.5	164.2321	26.02	-2.56	141002.990	4.0	201892.440	5.0
163.9827	26.02	-2.32	70728.750	4.0	131710.790	5.0	164.2322	28.01	-1.23	73893.730	1.5	134783.140	2.5
163.9875	26.01	-4.03	25787.600	1.5	86767.870	2.5	164.2325	28.02	-1.47	81686.900	6.0	142576.200	5.0
163.9957	29.02	-7.75	78779.400	1.5	139756.600	2.5	164.2369	26.01	-5.88	0.000	4.5	60887.660	5.5
163.9979	28.02	-1.14	71841.900	1.0	132818.300	2.0	164.2417	26.02	-2.01	139509.440	5.0	200395.330	5.0
164.0010	26.02	-1.88	118686.250	4.0	179661.480	3.0	164.2428	26.01	-9.56	18360.650	1.5	79246.130	1.5
164.0047	15.00	-1.72	18722.650	4.5	79696.500	1.5	164.2459	24.01	-2.65	30219.040	4.5	91103.360	4.5
164.0062	26.03	-3.39	128540.400	3.5	189513.700	4.5	164.2474	26.01	-1.80	31811.870	2.5	92695.620	2.5
164.0129	26.01	-3.24	31387.980	2.5	92358.800	1.5	164.2492	27.02	-1.15	71623.100	6.5	132506.200	5.5
164.0136	25.02	-1.26	113078.340	1.5	174048.890	2.5	164.2492	26.01	-7.71	18360.650	1.5	79243.730	1.5
164.0146	23.01	-3.36	2687.010	2.0	63657.200	2.0	164.2492	24.02	-4.24	97358.700	4.0	158241.800	5.0
164.0149	26.01	-6.18	8680.470	1.5	69650.540	2.5	164.2545	26.02	-3.14	121949.620	5.0	182830.760	6.0
164.0150	26.01	-7.72	3117.480	1.5	64087.500	2.5	164.2578	27.02	-3.66	78344.300	4.5	139314.200	4.5
164.0159	27.01	-3.71	24074.600	2.0	85044.300	3.0	164.2601	26.02	-3.06	84159.550	4.0	145038.610	3.0
164.0162	9.02	-4.80	380307.130	1.5	441276.720	2.5	164.2608	26.02	-3.14	83237.860	3.0	144116.640	3.0
164.0172	28.01	-2.29	72985.650	1.5	133954.850	4.5	164.2615	26.02	-2.01	128917.510	2.0	189796.030	1.0
164.0204	23.01	-1.74	3162.800	5.0	64130.840	4.0	164.2633	22.01	-5.52	8744.270	2.5	69622.150	2.5
164.0268	26.01	-1.26	31364.470	1.5	92330.100	2.5	164.2665	28.01	-4.92	68955.650	1.5	129842.330	2.5
164.0275	30.02	-2.89	235452.500	2.0	296417.900	1.0	164.2668	28.01	-1.74	72985.650	1.5	133862.810	1.5
164.0310	28.01	-3.44	70706.770	1.5	131670.870	2.5	164.2670	25.02	-3.59	72183.330	3.5	133059.840	3.5
164.0324	25.01	-4.35	49465.130	3.0	110428.700	4.0	164.2678	28.01	-4.00	76402.030	2.5	137278.220	1.5
164.0343	18.01	-1.44	145668.800	1.5	206631.670	2.5	164.2723	26.01	-6.45	26055.400	2.5	86929.920	3.5
164.0384	26.02	-3.32	118721.600	2.0	179682.940	1.0	164.2737	28.01	-1.36	57420.160	2.5	118294.170	3.5
164.0404	24.00	-9.30	0.000	3.0	60960.580	4.0	164.2782	25.02	-2.22	111883.600	2.5	172755.950	3.5
164.0416	2.01	-7.71	329182.203	0.0	390142.350	0.0	164.2789	28.01	-2.49	72985.650	1.5	133857.730	1.5
164.0430	24.01	-3.72	30143.720	5.5	91103.360	4.5	164.2798	28.01	-3.06	70748.700	4.5	131620.450	1.5
164.0456	25.02	-2.48	133949.540	4.5	194908.200	5.5	164.2799	26.02	-6.62	21462.200	4.0	82333.920	3.0
164.0485	27.02	-1.51	79425.300	2.5	140382.900	3.5	164.2803	20.01	-3.45	13650.190	1.5	74521.750	1.5
164.0490	26.02	-2.41	89697.520	3.0	150654.900	3.0	164.2810	26.02	-2.65	98783.590	4.0	150654.900	3.0
164.0495	25.00	-7.37	0.000	2.5	60957.210	3.5	164.2835	12.02	-2.22	474053.200	3.0	534923.600	3.0
164.0506	26.01	-7.31	0.000	4.5	60956.820	3.5	164.2856	25.01	-5.42	9472.970	2.0	70342.580	3.0
164.0547	26.02	-2.72	118721.600	2.0	179676.890	2.0	164.2862	26.02	-1.59	121941.290	4.0	182810.660	5.0
164.0550	26.02	-3.86	83161.480	4.0	144116.640	3.0	164.2892	22.01	-3.69	10024.740	2.5	70893.000	3.5
164.0666	25.02	-1.80	133949.540	4.5	194900.400	5.5	164.2926	26.02	-0.96	128917.510	2.0	189784.520	2.0
164.0676	28.02	-1.63	78303.100	2.0	139253.600	2.0	164.2941	26.02	-1.87	118355.010	6.0	179221.450	7.0
164.0692	26.02	-3.89	121468.820	5.0	182418.700	4.0	164.2972	27.02	-3.46	73214.500	4.5	134079.800	1.5
164.0694	27.02	-4.29	70934.100	2.5	131883.900	2.5	164.2988	9.02	-4.30	406904.380	5.5	467769.110	5.5
164.0714	28.01	-3.31	70706.770	1.5	131655.830	4.5	164.2999	27.02	-3.94	110961.500	1.5	171825.800	1.5
164.0728	15.00	-2.01	18747.950	1.5	79696.500	1.5	164.3013	23.01	-0.80	3162.800	5.0	64026.600	4.0
164.0736	26.01	-5.09	25981.650	3.5	86929.920	3.5	164.3036	23.02	-1.11	86306.400	4.5	147169.340	3.5
164.0750	26.02	-3.22	83138.230	5.0	144085.970	4.0	164.3056	26.02	-3.28	139463.360	5.0	200325.560	4.0
164.0751	26.02	-1.74	118246.520	3.0	179194.220	4.0	164.3075	23.01	-0.78	2687.010	2.0	63548.500	1.0
164.0783	26.02	-3.09	84671.870	3.0	145618.390	2.0	164.3076	26.02	-1.29	118355.010	6.0	179216.470	6.0
164.0785	24.01	-4.29	30156.940	3.5	91103.360	4.5	164.3081	18.02	-1.87	225147.930	2.0	286009.210	2.0
164.0786	24.02	-2.67	97120.300	3.0	158066.700	3.0	164.3108	9.02	-3.68	380307.130	1.5	441167.400	5.5
164.0837	26.02	-1.22	118686.250	4.5	179630.770	4.0	164.3111	9.02	-4.54	406908.950	1.5	467769.110	5.5
164.0850	26.01	-4.74	31483.200	3.5	92427.220	4.5	164.3119	26.02	-3.15	125443.580	4.0	186303.440	3.0
164.0855	26.02	-2.64	121468.820	5.0	182412.650	4.0	164.3162	25.02	-4.29	121091.080	1.5	181949.340	2.5
164.0859	23.01	-4.46	2604.820	1.0	63548.500	1.0	164.3187	26.02	-3.62	118350.240	4.0	179207.570	5.0
164.0901	26.01	-1.86	31387.980	2.5	92330.100	2.5	164.3257	26.02	-3.55	83646.980	1.0	144501.740	2.0
164.0939	24.02	-2.24	97683.000	3.0	158623.700	4.0	164.3271	28.01	-0.78	71457.740	3.5	132311.980	4.5
164.0942	26.02	-2.66	97041.380	3.0	157982.000	3.0	164.3277	18.02	-2.51	225155.180	1.0	286009.210	2.0
164.0962	26.02	-4.96	118721.600	2.0	179661.480	3.0	164.3285	23.02	-2.37	49327.740	2.5	110181.470	2.5
164.0969	12.03	-1.51	543727.000	2.5	6								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
164.4031	27.01	-3.29	24886.500	2.0	85712.600	2.0	164.6625	25.02	-1.14	111883.600	2.5	172613.870	2.5
164.4062	26.01	-3.11	13673.210	1.5	74498.150	1.5	164.6691	28.01	-4.81	55417.830	3.5	116145.690	3.5
164.4072	24.02	-3.35	97618.300	5.0	158442.900	4.0	164.6695	25.01	-4.72	29869.110	2.0	90596.800	2.0
164.4122	28.01	-4.11	54262.630	3.5	115085.360	3.5	164.6695	23.02	-1.16	97512.000	1.5	158239.700	2.5
164.4136	28.01	-1.08	58493.210	2.5	119315.440	2.5	164.6714	28.02	-3.05	76237.800	3.0	136964.800	3.0
164.4162	24.04	-2.22	167184.000	1.0	228006.000	1.0	164.6719	18.02	-2.51	225155.180	1.0	285882.000	1.0
164.4169	26.02	-2.77	73727.640	2.0	134549.380	1.0	164.6757	28.02	-2.11	71067.000	3.0	131792.400	4.0
164.4159	26.02	-3.35	73727.640	2.0	134549.000	3.0	164.6803	12.02	-1.50	474053.200	3.0	534776.900	2.0
164.4162	26.02	-1.71	121008.780	3.0	181830.020	3.0	164.6808	26.01	-3.84	33466.500	4.5	94190.020	5.5
164.4187	25.00	-6.29	0.000	2.5	60820.350	2.5	164.6825	28.02	-3.03	153256.100	4.0	213979.000	3.0
164.4199	26.02	-2.86	121008.780	3.0	181828.660	2.0	164.6843	26.02	-3.97	83161.480	4.0	143883.740	5.0
164.4230	28.01	-4.03	54762.630	3.5	115081.360	4.5	164.6850	24.02	-1.88	96713.100	3.0	157435.100	2.0
164.4239	25.01	-4.68	14901.180	1.0	75719.590	1.0	164.6896	24.01	-8.27	20512.620	2.5	81232.910	2.5
164.4280	26.02	-1.25	121008.780	3.0	181825.670	4.0	164.6903	26.02	-2.91	70725.010	3.0	131445.030	2.0
164.4286	27.01	-3.39	25317.720	1.0	86134.400	1.0	164.6917	27.01	-4.11	21624.400	5.0	82343.900	4.0
164.4301	26.02	-2.52	139509.440	5.0	200325.560	4.0	164.7014	18.01	-4.63	147875.860	2.5	208591.780	1.5
164.4315	27.02	-2.35	78927.800	3.5	139743.400	2.5	164.7015	24.02	-1.65	96921.400	2.0	157637.300	3.0
164.4329	26.02	-3.63	118867.870	1.0	179682.940	1.0	164.7051	24.01	-4.13	20518.330	3.5	81232.910	2.5
164.4350	23.01	-2.38	9097.810	4.0	69912.100	4.0	164.7086	27.02	-9.98	71873.700	5.5	132587.000	4.5
164.4442	24.02	-2.71	97097.100	4.0	157908.000	4.0	164.7105	26.03	-1.18	128190.100	2.5	188902.700	3.5
164.4443	20.01	-2.49	13710.880	2.5	74521.750	1.5	164.7108	26.01	-5.28	26055.400	2.5	86767.870	2.5
164.4451	18.01	-4.80	143107.600	2.5	203918.150	1.5	164.7151	23.02	-3.85	28746.800	2.5	89457.670	2.5
164.4471	26.02	-3.40	139846.180	6.0	200656.020	6.0	164.7154	26.01	-1.08	8391.920	2.5	69102.690	2.5
164.4483	28.02	-1.17	82194.300	5.0	143003.700	4.0	164.7193	26.02	-2.33	86847.110	2.0	147556.450	1.0
164.4495	26.02	-0.80	84159.550	4.0	144968.500	4.0	164.7199	9.02	-4.76	357479.350	1.5	418188.480	5.5
164.4509	28.01	-3.57	55018.710	2.5	115827.120	3.5	164.7211	26.01	-5.66	384.770	3.5	61093.440	2.5
164.4540	26.01	-5.71	0.000	4.5	60807.280	4.5	164.7227	27.02	-3.14	110371.200	2.5	171079.300	3.5
164.4555	26.00	-4.65	0.000	4.0	60806.720	3.0	164.7227	27.02	-3.14	110371.200	2.5	171079.300	3.5
164.4613	24.01	-1.71	30298.770	5.5	91103.360	4.5	164.7227	27.02	-1.87	110371.200	2.5	171079.300	3.5
164.4656	24.03	-2.09	104637.000	3.5	165440.000	4.5	164.7229	24.02	-3.64	97358.700	4.0	158066.700	3.0
164.4677	23.01	-2.41	8841.970	3.0	69644.200	3.0	164.7243	25.01	-6.92	29889.310	3.0	90596.800	2.0
164.4683	24.02	-4.92	112398.500	4.0	173200.500	5.0	164.7243	27.01	-3.81	4950.000	2.0	65657.500	1.0
164.4723	27.02	-1.39	79425.300	2.5	140225.800	3.5	164.7316	27.02	-2.44	47698.600	1.5	108403.400	1.5
164.4749	26.01	-1.99	31483.200	3.5	92282.760	3.5	164.7343	26.02	-2.06	139680.470	3.0	203884.280	3.0
164.4763	25.02	-3.02	111883.600	2.5	172682.640	3.5	164.7357	28.01	-1.94	56371.410	3.5	117074.700	3.5
164.4764	25.03	-4.89	188184.800	6.0	248983.800	5.0	164.7380	26.01	-7.83	26932.740	5.5	87635.200	5.5
164.4807	30.02	-1.12	79273.600	2.0	140071.000	1.0	164.7408	26.01	-3.84	13187.980	2.5	92089.410	3.5
164.4812	25.02	-3.61	112057.800	3.5	172855.020	4.5	164.7436	26.02	-1.91	139625.170	4.0	203255.560	4.0
164.4901	28.01	-2.76	54176.260	5.5	114970.190	5.5	164.7439	26.02	-2.25	73849.100	1.0	134549.380	1.0
164.4935	25.02	-2.57	111776.600	1.5	172569.270	1.5	164.7472	23.02	-4.12	85524.000	2.5	146223.050	3.5
164.4978	29.02	-4.20	136607.300	2.5	197398.400	2.5	164.7484	10.01	-2.71	252953.540	1.5	313652.170	1.5
164.4978	26.01	-2.20	31811.870	2.5	92602.940	3.5	164.7497	25.02	-3.30	112057.800	3.5	172755.950	3.5
164.5016	26.01	-2.02	1872.600	4.5	62662.300	5.5	164.7541	26.01	-3.35	31999.120	3.5	92695.620	2.5
164.5030	24.01	-5.13	19631.280	1.5	80420.430	2.5	164.7613	23.02	-4.15	42267.400	2.5	102961.280	3.5
164.5039	26.02	-4.03	86847.110	2.0	147635.950	3.0	164.7683	27.02	-1.74	77121.100	4.5	137812.400	3.5
164.5044	25.02	-2.50	72183.330	3.5	132971.990	3.5	164.7704	8.01	-3.83	214229.480	1.5	214920.000	1.5
164.5070	24.02	-2.85	97120.300	3.0	157908.000	4.0	164.7704	8.01	-2.83	214229.480	1.5	274920.000	2.5
164.5108	27.02	-1.56	79425.300	2.5	140211.600	2.5	164.7729	26.02	-3.33	141466.530	3.0	202156.130	2.0
164.5110	26.01	-3.97	25981.650	3.5	86767.870	2.5	164.7737	24.02	-2.50	94374.700	4.0	155064.000	4.0
164.5116	28.02	-2.57	55406.100	3.0	116192.100	4.0	164.7740	25.02	-1.08	116580.170	1.5	177269.340	1.5
164.5140	25.02	-0.80	116692.140	2.5	177477.230	2.5	164.7752	26.01	-9.94	31483.200	3.5	92171.950	4.5
164.5149	18.01	-2.77	142717.020	3.5	203501.800	2.5	164.7764	25.03	-1.24	111710.400	2.0	172398.700	2.0
164.5209	23.02	-3.82	94714.250	5.5	155496.800	1.5	164.7808	26.02	-2.55	141469.450	1.0	202156.130	2.0
164.5262	24.02	-0.86	97683.000	3.0	158463.600	3.0	164.7813	23.01	-6.02	18353.890	3.0	79040.400	3.0
164.5308	27.02	-3.43	110961.500	1.5	171740.400	1.5	164.7835	25.02	-2.27	111883.600	2.5	172569.270	1.5
164.5308	27.02	-3.43	110961.500	1.5	171740.400	1.5	164.7929	26.01	-4.69	33466.500	4.5	94148.710	4.5
164.5308	27.02	-2.87	110961.500	1.5	171740.400	1.5	164.7935	25.02	-3.31	121267.320	2.5	181949.340	2.5
164.5323	25.01	-1.84	30523.450	6.0	91301.800	5.0	164.7951	27.02	-4.24	107530.100	3.5	168211.500	4.5
164.5344	25.01	-4.32	49427.320	4.0	110204.900	3.0	164.7981	27.01	-5.68	4028.900	4.0	64709.200	5.0
164.5419	27.02	-4.36	79425.300	2.5	140200.100	1.5	164.7987	17.03	-7.70	187346.000	3.0	248026.100	2.0
164.5491	26.01	-7.43	384.770	3.5	61156.900	3.5	164.8055	25.01	-7.49	29919.220	2.0	90596.800	2.0
164.5515	25.02	-3.27	111776.600	1.5	172547.850	2.5	164.8059	26.01	-3.86	25805.320	4.5	86482.750	3.5
164.5530	28.02	-1.79	78482.900	1.0	139253.600	2.0	164.8060	25.01	-6.40	9472.970	2.0	70150.390	1.0
164.5544	26.02	-1.87	139625.170	4.0	200395.330	5.0	164.8065	26.00	-4.79	0.000	4.0	60677.230	5.0
164.5570	9.02	-4.10	357479.350	1.5	418248.560	1.5	164.8098	18.02	-2.54	225155.180	1.0	285831.200	0.0
164.5600	27.02	-2.37	110961.500	1.5	171729.600	2.5	164.8106	28.02	-3.24	78303.100	2.0	138978.800	1.0
164.5615	26.02	-2.47	86847.110	2.0	147614.650	2.0	164.8106	23.02	-2.20	97512.000	1.5	158187.700	5.5
164.5623	24.01	-1.83	30219.040	4.5	90986.310	3.5	164.8109	22.01	-7.12	9930.740	1.5	70606.350	2.5
164.5641	29.02	-1.89	136607.300	2.5	197373.900	3.5	164.8135	25.02	-1.18	111776.600	1.5	172451.230	1.5
164.5653	28.01	-3.07	54176.260	5.5	114942.420	1.5	164.8167	26.02	-3.89	139764.480	2.0	200437.940	2.0
164.5736	28.01	-4.35	56075.260	2.5	116638.330	1.5	164.8209	26.01	-4.99	38660.040	3.5	99331.950	4.5
164.5736	23.02	-2.63	98383.530	2.5	159146.600	2.5	164.8214	28.01	-3.64	75917.630	3.5	136589.350	3.5
164.5777	26.02	-0.39	128917.510	2.0	189679.070	3.0	164.8242	23.02	-4.06	28746.800	2.5	89417.500	3.5
164.5796	25.00	-7.19	0.000	2.5	60760.870	1.5	164.8254	28.01	-2.91	52738.450	2.5	113408.710	1.5
164.5803	24.02	-1.28	97306.100	2.0	158066.700	3.0	164.8284	26.01	-7.93	26932.740	5.5	87601.900	1.5
164.5818	25.02	-1.16	113676.530	2.5	174436.590	2.5	164.8292	28.01	-2.80	51273.450	2.5	113407.310	2.5
164.5821	26.01	-5.26	25787.600	1.5	86547.550	2.5	164.8297	26.02	-1.55	84369.920	2.0	145038.610	3.0
164.5822	24.02	-0.93	97683.000</										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
164.9145	27.02	-1.88	47415.400	2.5	108052.900	2.5	165.1626	23.01	-3.94	90977.810	4.0	69644.200	3.0
164.9159	26.02	-2.23	118557.250	5.0	179194.220	4.0	165.1700	25.03	-6.64	112408.900	4.0	172952.600	3.0
164.9185	27.02	-2.73	108052.900	2.5	168688.900	2.5	165.1721	29.02	-3.34	86133.000	.5	146675.900	.5
164.9239	26.02	-2.68	21699.900	3.0	82333.920	3.0	165.1727	27.02	-4.23	111283.100	.5	171825.800	1.5
164.9246	26.01	-3.65	31483.200	3.5	92116.980	4.5	165.1738	30.02	-5.51	80850.200	1.0	141392.500	0.0
164.9272	25.02	-3.46	88880.080	2.5	149512.900	1.5	165.1787	27.02	-1.18	72083.300	4.5	132623.800	3.5
164.9281	27.02	-4.42	71873.700	5.5	132506.200	5.5	165.1792	27.02	-2.37	77121.100	4.5	137661.400	4.5
164.9312	26.02	-2.17	141399.040	2.0	202030.380	3.0	165.1795	24.02	-2.19	97097.100	4.0	157637.300	3.0
164.9326	26.02	-3.03	125637.980	3.0	186268.790	2.0	165.1815	24.01	-6.87	25033.950	3.5	85573.420	3.5
164.9332	26.02	-2.57	125672.830	2.0	186303.440	3.0	165.1831	28.01	-2.97	95417.830	3.5	115956.710	2.5
164.9337	22.01	-3.81	9975.920	1.5	70606.350	2.5	165.1832	25.01	-4.04	49889.860	3.0	110428.700	4.0
164.9352	24.00	-8.86	0.000	3.0	60629.870	2.0	165.1839	27.02	-2.84	47864.800	.5	108403.400	1.5
164.9394	28.01	-1.93	72985.650	1.5	133613.990	1.5	165.1861	26.02	-2.02	73727.640	2.0	134265.420	2.0
164.9403	11.05	-4.49	873287.000	2.0	933915.000	2.0	165.1904	27.02	-3.53	78434.300	.5	138970.500	1.5
164.9404	24.00	-5.54	0.000	3.0	60627.960	4.0	165.1917	28.01	-3.59	68735.980	2.5	129271.720	3.5
164.9414	26.02	-2.99	122829.550	3.0	183457.150	4.0	165.1943	28.01	-3.56	76402.030	2.5	136936.820	3.5
164.9423	26.01	-7.78	2837.940	2.5	63465.190	1.5	165.1991	20.01	-4.19	0.000	.5	60533.020	.5
164.9426	26.02	-3.87	122829.550	3.0	183456.690	3.0	165.2007	8.01	-2.07	185235.360	.5	245767.800	.5
164.9427	25.01	-4.96	27570.950	5.0	88198.070	6.0	165.2011	29.02	.07	60804.900	4.5	121337.200	4.5
164.9457	29.01	-2.06	73101.870	1.0	133727.870	2.0	165.2024	27.02	-4.47	86283.800	4.5	146815.600	3.5
164.9470	25.02	-1.09	116951.690	3.5	177477.230	2.5	165.2080	8.01	-1.50	185499.200	2.5	246028.950	3.5
164.9472	26.01	-4.28	0.000	4.5	60625.470	5.5	165.2082	24.02	-4.47	96773.500	1.0	157303.200	1.0
164.9489	25.02	-2.54	112057.800	3.5	172682.640	3.5	165.2142	28.01	-3.97	55299.650	4.5	115827.120	3.5
164.9499	22.01	-8.14	8997.690	3.5	69622.150	2.5	165.2155	27.02	-1.57	47003.100	3.5	107530.100	3.5
164.9517	25.02	-4.71	117063.740	4.5	177687.540	3.5	165.2163	28.02	-1.87	83033.800	2.0	143560.500	2.0
164.9523	27.02	-1.13	86327.100	3.5	146950.700	2.5	165.2164	22.02	-1.80	75197.430	2.0	135724.100	2.0
164.9525	24.02	.14	97618.300	5.0	158241.800	5.0	165.2172	24.01	-5.88	25047.040	2.5	85573.420	3.5
164.9532	18.01	-3.86	143107.600	2.5	203730.860	1.5	165.2211	26.02	-1.56	121919.740	3.0	182444.700	3.0
164.9551	25.01	-2.93	30679.240	5.0	91301.800	5.0	165.2221	12.02	-6.69	474655.000	2.0	535179.600	2.0
164.9555	24.01	-4.93	19798.010	2.5	80420.430	2.5	165.2229	28.01	-4.62	54557.050	4.5	115081.360	4.5
164.9569	26.01	-1.01	8680.470	1.5	69302.350	1.5	165.2310	26.02	-2.02	118686.250	4.0	179207.570	5.0
164.9626	26.02	-1.40	139764.480	2.0	200384.280	3.0	165.2352	20.01	-1.83	10115.660	2.5	70635.460	2.5
164.9649	27.01	-4.41	22009.230	4.0	82628.200	3.0	165.2368	18.01	-3.88	151087.250	2.5	211606.470	3.5
164.9706	22.01	-1.69	8710.470	1.5	69327.320	1.5	165.2397	24.00	-9.50	0.000	3.0	60518.160	3.0
164.9709	15.00	-2.44	18722.650	.5	79339.400	1.5	165.2397	24.00	-9.04	0.000	3.0	60518.160	3.0
164.9734	24.00	-8.10	0.000	3.0	60615.840	3.0	165.2428	24.02	-1.12	97120.300	3.0	157637.300	3.0
164.9735	23.02	-2.08	85524.000	2.5	146139.800	2.5	165.2482	26.01	-6.40	2430.080	3.5	62945.120	3.5
164.9750	25.01	-4.91	37847.900	2.0	98463.160	3.0	165.2518	24.02	-1.27	96921.400	2.0	157435.100	2.0
164.9768	28.02	-4.63	54657.900	4.0	115272.500	5.0	165.2529	30.02	-1.13	233610.400	2.0	294123.700	3.0
164.9811	25.01	-4.66	37851.150	3.0	98464.160	4.0	165.2536	9.02	-2.61	384493.060	1.5	445006.130	2.5
164.9832	28.01	-3.42	54262.630	3.5	114874.880	2.5	165.2537	26.02	-2.90	122944.150	4.0	183457.150	4.0
164.9858	20.01	-3.47	0.000	.5	60611.280	1.5	165.2550	28.02	-2.08	122944.150	4.0	183456.690	3.0
164.9907	28.01	-1.33	58705.950	1.5	119315.440	2.5	165.2647	24.04	-5.51	167497.000	2.0	228006.000	1.0
164.9953	27.02	-3.25	108403.400	1.5	169011.200	.5	165.2675	26.02	-2.68	118686.250	4.0	179194.220	4.0
164.9976	26.01	-4.18	33466.500	4.5	94073.460	3.5	165.2727	25.01	-3.47	30795.750	4.0	91301.800	5.0
164.9979	28.01	-2.80	58493.210	2.5	119100.060	1.5	165.2753	27.02	-4.92	110961.500	1.5	171466.600	2.5
164.9985	18.02	-2.03	225402.590	3.0	286009.210	2.0	165.2753	27.02	-4.92	110961.500	1.5	171466.600	2.5
164.9996	26.01	-4.66	31483.200	3.5	92089.410	3.5	165.2753	27.02	-2.26	110961.500	1.5	171466.600	2.5
165.0029	25.02	-1.22	116580.170	1.5	177185.180	.5	165.2785	24.00	-9.70	0.000	3.0	60503.940	4.0
165.0037	26.01	-5.40	384.770	3.5	60989.480	4.5	165.2791	27.02	-4.50	72083.300	4.5	132587.000	4.5
165.0061	26.01	-3.57	31999.120	3.5	92602.940	3.5	165.2799	26.02	-4.95	121941.290	4.0	182444.700	3.0
165.0120	28.01	-2.04	75917.630	3.5	136519.280	4.5	165.2808	27.02	-1.20	71873.700	5.5	132376.800	6.5
165.0127	26.01	-5.07	25787.600	1.5	86388.980	.5	165.2860	28.02	.62	81686.900	6.0	142188.100	6.0
165.0161	23.02	-1.19	27727.800	3.5	88327.960	3.5	165.2863	28.01	-4.23	25981.650	3.5	86482.750	3.5
165.0204	9.02	-2.85	384358.540	.5	444957.110	1.5	165.2871	24.01	-8.92	12148.000	2.5	72648.790	3.5
165.0275	26.02	-2.18	125672.830	2.0	186268.790	2.0	165.2876	9.02	-2.19	395268.130	1.5	455768.720	.5
165.0320	17.03	-1.39	252396.700	2.0	312991.000	1.0	165.2905	25.01	-1.97	30679.240	5.0	91178.800	4.0
165.0348	26.01	-4.07	13904.870	.5	74498.150	1.5	165.2909	26.03	-4.08	127928.100	1.5	188427.500	2.5
165.0353	27.01	-6.00	4560.800	3.0	65153.900	4.0	165.2921	26.02	-1.76	121919.740	3.0	182418.700	4.0
165.0389	26.02	-2.13	105906.230	2.0	166498.000	3.0	165.2924	18.01	-2.60	151087.250	2.5	211586.110	2.5
165.0398	15.00	-2.48	18747.950	1.5	79339.400	1.5	165.2937	26.02	-4.71	139827.170	4.0	200325.560	4.0
165.0404	23.02	.27	86809.390	5.5	147400.620	4.5	165.2966	28.01	-3.72	76402.030	2.5	136899.330	1.5
165.0407	28.01	-1.34	10115.660	2.5	70706.770	1.5	165.2976	15.00	-3.30	18722.650	.5	79219.600	.5
165.0482	26.02	-4.15	121241.670	4.0	181830.020	3.0	165.3005	28.02	-1.43	78482.900	1.0	138978.800	1.0
165.0497	26.02	-2.49	76956.790	3.0	137544.600	2.0	165.3023	10.01	-4.35	246192.450	2.5	306687.670	3.5
165.0535	18.01	-1.20	145668.800	1.5	206255.230	2.5	165.3028	26.01	-6.47	122810.330	3.5	83305.370	3.5
165.0584	25.03	-7.74	111506.000	1.0	172090.600	1.0	165.3072	24.00	-6.11	0.000	3.0	60493.420	3.0
165.0601	26.02	-2.34	121241.670	4.0	181825.670	4.0	165.3086	26.02	-3.88	121919.740	3.0	182412.650	4.0
165.0627	22.01	-1.91	8744.270	2.5	69327.320	1.5	165.3101	26.02	-3.11	118686.250	4.0	179178.620	3.0
165.0657	18.01	-3.40	151087.250	2.5	211669.180	2.5	165.3107	26.01	-3.79	26055.400	2.5	86547.550	2.5
165.0666	22.01	-4.07	10024.740	2.5	70606.350	2.5	165.3111	25.04	-1.89	184633.000	3.5	245125.000	4.5
165.0684	8.01	-2.09	185235.360	.5	245816.290	1.5	165.3119	28.02	.57	85834.800	5.0	146326.500	5.0
165.0696	26.01	-1.12	8846.760	.5	69427.270	.5	165.3159	24.01	-6.16	19798.010	2.5	80288.250	1.5
165.0767	30.02	-3.06	233610.400	2.0	294188.300	2.0	165.3164	25.02	-3.15	12057.800	3.5	172547.850	2.5
165.0786	25.02	-1.25	116492.140	2.5	177269.340	1.5	165.3186	26.01	-6.09	667.640	2.5	61156.900	3.5
165.0788	26.01	-4.99	26352.800	4.5	86929.920	3.5	165.3188	26.02	-4.16	121919.740	3.0	182408.910	3.0
165.0812	18.01	-1.61	151087.250	2.5	211663.500	3.5	165.3200	26.01	-4.19	26055.400	2.5	86544.140	1.5
165.0849	28.02	-4.53	76237.800	3.0	136812.700	2.0	165.3200	3.01	-4.46	494273.000			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
165.3834	25.02	-2.58	71831.980	2.5	132297.550	2.5
165.3875	9.02	-3.35	384493.060	1.5	444957.110	1.5
165.3879	25.03	-1.16	112013.300	3.0	172477.200	4.0
165.3903	26.02	-1.52	121949.620	5.0	182412.650	4.0
165.3915	25.03	-1.28	112408.900	4.0	172871.500	5.0
165.3939	28.01	-3.47	56371.410	3.5	116833.150	4.5
165.3995	26.02	-4.35	140196.330	7.0	200656.020	6.0
165.4021	27.01	-5.53	4950.000	2.0	65408.710	2.0
165.4022	26.02	-3.19	77102.430	2.0	137561.100	1.0
165.4034	28.01	-3.35	72985.650	1.5	133443.890	2.5
165.4060	27.02	-3.98	111283.100	.5	171740.400	1.5
165.4060	27.02	-3.98	111283.100	.5	171740.400	1.5
165.4060	27.02	-2.90	111283.100	.5	171740.400	1.5
165.4068	26.02	-4.69	118721.600	2.0	179178.620	3.0
165.4095	27.01	-3.25	4560.800	3.0	65016.830	2.0
165.4107	26.01	-1.82	8846.760	.5	69302.350	1.5
165.4143	23.02	-1.93	85524.000	2.5	145978.270	2.5
165.4147	26.02	-2.01	83429.610	6.0	143883.740	5.0
165.4156	19.02	-2.28	243448.200	1.5	303902.000	1.5
165.4178	26.02	-2.08	141466.530	3.0	201919.530	4.0
165.4178	27.01	-4.10	5204.500	1.0	65657.500	1.0
165.4191	28.03	-2.08	121799.830	2.5	182252.330	1.5
165.4217	18.01	-1.79	145668.800	1.5	206120.350	2.5
165.4262	26.01	-1.80	1872.600	4.5	62322.500	3.5
165.4298	25.01	-4.57	27546.900	6.0	87995.500	5.0
165.4351	23.02	-3.57	28746.800	2.5	89193.470	1.5
165.4460	26.02	-2.38	139463.360	5.0	199906.030	6.0
165.4474	26.02	-2.14	77102.430	2.0	137544.600	2.0
165.4476	26.01	-1.98	3117.480	1.5	63559.560	.5
165.4490	27.01	-5.49	3350.500	5.0	63792.100	4.0
165.4547	28.01	-2.97	55299.650	4.5	115739.150	4.5
165.4555	20.02	-2.91	325467.670	2.0	385906.900	2.0
165.4556	28.01	-2.15	52738.450	2.5	113177.610	3.5
165.4562	24.01	-2.36	31117.590	2.5	91556.540	1.5
165.4572	29.02	.07	62065.000	3.5	122503.600	3.5
165.4573	26.02	-2.10	121941.290	4.0	182379.860	5.0
165.4587	9.01	-3.59	235150.580	2.0	295588.610	1.0
165.4594	27.01	-4.89	950.300	3.0	61388.100	4.0
165.4608	18.01	-3.43	150147.620	2.5	210584.880	1.5
165.4668	26.01	-2.28	2837.940	2.5	63273.030	2.5
165.4680	18.01	-2.39	145668.800	1.5	206103.450	1.5
165.4695	30.02	-2.07	233610.400	2.0	294044.500	1.0
165.4714	27.02	-2.58	110371.200	2.5	170804.600	1.5
165.4723	25.01	-2.16	43370.370	3.0	103803.440	3.0
165.4801	26.02	-1.26	121949.620	5.0	182379.860	5.0
165.4826	27.02	-3.11	77383.100	3.5	137812.400	3.5
165.4859	26.01	-2.09	31999.120	3.5	92427.220	4.5
165.4865	24.02	-2.05	94029.200	3.0	154457.100	4.0
165.4880	26.01	-8.86	26055.400	2.5	86482.750	3.5
165.4882	26.02	-3.75	84159.550	4.0	144586.830	5.0
165.4886	8.01	-2.75	185340.680	1.5	245767.800	.5
165.4922	26.01	-5.40	667.440	2.5	61093.440	2.5
165.4952	30.02	-1.95	233610.400	2.0	294035.100	2.0
165.4956	25.01	-4.76	27570.950	5.0	87995.500	5.0
165.5002	27.02	-1.31	72083.300	4.5	132506.200	5.5
165.5012	26.01	-4.66	384.770	3.5	60807.280	4.5
165.5019	14.00	-4.32	223.157	2.0	60645.441	2.0
165.5020	26.01	-2.04	8680.470	1.5	69102.690	2.5
165.5046	25.01	-2.08	31661.720	3.0	92083.000	3.0
165.5053	26.02	-3.34	139463.360	5.0	199884.390	5.0
165.5182	26.02	-2.31	73849.100	1.0	134265.420	2.0
165.5250	28.01	-4.91	56424.490	1.5	116838.330	1.5
165.5275	24.01	-8.43	12303.980	3.5	72718.910	4.5
165.5295	25.01	-5.35	27583.300	4.0	87995.500	5.0
165.5328	26.02	-4.60	84159.550	4.0	144570.530	3.0
165.5351	23.02	-3.10	86716.840	1.5	147127.000	2.5
165.5375	28.01	-2.03	55417.830	3.5	115827.120	3.5
165.5493	22.02	-3.12	75197.430	2.0	135602.400	1.0
165.5504	26.01	-1.40	31811.870	2.5	92216.420	1.5
165.5529	8.01	-2.08	185499.200	2.5	245902.850	2.5
165.5596	26.02	-3.88	126390.570	1.0	186791.780	2.0
165.5599	17.03	-1.78	187174.000	2.0	247575.100	1.0
165.5642	20.02	-4.85	325467.670	2.0	385867.200	3.0
165.5644	15.00	-3.64	18722.650	.5	79122.100	1.5
165.5656	28.03	-2.07	121799.830	2.5	182198.850	2.5
165.5684	24.04	-1.47	168099.000	3.0	228497.000	2.0
165.5720	27.02	-3.68	108052.900	2.5	168449.600	3.5
165.5723	26.02	-2.15	139509.440	5.0	199906.030	6.0
165.5724	28.01	-3.77	70635.460	2.5	131032.010	2.5
165.5732	24.01	-6.46	20024.180	3.5	80420.630	2.5
165.5749	25.00	-6.08	0.000	2.5	60395.640	1.5
165.5769	27.01	-2.89	25317.720	1.0	85712.600	2.0
165.5788	18.01	-3.50	143107.600	2.5	203501.800	2.5
165.5791	28.01	-2.77	58705.950	1.5	119100.060	1.5
165.5810	27.02	-4.46	79425.300	2.5	139818.700	3.5
165.5817	28.01	-3.33	56075.260	2.5	116468.400	1.5
165.5882	26.00	-7.03	415.932	3.0	60806.720	3.0
165.5902	28.01	-4.17	73893.730	1.5	134283.760	.5
165.5970	23.02	-1.59	87218.920	3.5	147606.500	3.5
165.6029	25.03	-4.66	112013.300	3.0	172398.700	2.0
165.6048	25.01	-4.57	49820.160	2.0	110204.900	3.0
165.6076	24.02	-2.26	97683.000	3.0	158066.700	3.0
165.6078	25.01	-2.50	43484.500	2.0	103868.140	1.0
165.6094	25.01	-2.33	30795.750	4.0	91178.800	4.0
165.6125	28.03	.55	82194.300	5.0	142576.200	5.0
165.6128	24.02	-1.84	96921.400	2.0	157303.200	1.0
165.6130	10.01	-2.70	252798.480	.5	313180.230	1.5
165.6163	9.02	-2.91	395268.130	1.5	455648.670	1.5
165.6172	25.03	-1.61	111710.400	2.0	172090.600	1.0
165.6192	18.01	-2.17	150147.620	2.5	210527.100	2.5
165.6230	25.01	-1.14	31661.720	3.0	92039.800	2.0
165.6254	28.01	-2.47	71457.740	3.5	131834.940	2.5
165.6267	6.00	-1.96	16.400	1.0	60393.140	2.0
165.6282	23.02	-3.99	49805.290	3.5	110181.470	2.5
165.6316	24.00	-6.94	0.000	3.0	60374.940	2.0
165.6316	26.02	-2.85	139509.440	5.0	199884.390	5.0
165.6322	29.01	-4.95	73353.120	2.0	133727.870	2.0
165.6338	26.01	-5.75	667.640	2.5	61041.780	2.5
165.6338	15.00	-2.09	18747.950	1.5	79122.100	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
165.6361	25.02	.20	114501.180	4.5	174874.500	4.5
165.6381	27.01	-4.36	4028.900	4.0	64401.500	4.0
165.6387	25.02	-2.19	113676.530	2.5	174048.890	2.5
165.6411	25.03	-.21	111710.400	2.0	172081.900	3.0
165.6425	28.01	-3.53	75917.630	3.5	136288.600	2.5
165.6448	25.01	-4.26	27570.950	5.0	87941.080	4.0
165.6538	25.02	.23	114209.010	3.5	174575.870	3.5
165.6541	26.02	-1.25	84671.870	3.0	145038.610	3.0
165.6561	26.01	-4.68	22939.350	2.5	83305.370	3.5
165.6596	26.00	-6.15	0.000	4.0	60364.760	3.0
165.6604	28.01	-4.66	76402.030	2.5	136766.490	2.5
165.6663	26.03	-.03	128540.400	3.5	188902.700	3.5
165.6673	28.01	-3.88	56424.490	1.5	116786.420	.5
165.6696	28.01	-2.72	56371.410	3.5	116732.510	2.5
165.6740	18.01	-4.50	143371.350	1.5	203730.860	1.5
165.6743	26.01	-9.49	18886.750	.5	79246.130	1.5
165.6776	24.02	-1.11	97076.900	1.0	157435.100	2.0
165.6787	25.01	-3.59	27583.300	4.0	87941.080	4.0
165.6809	26.01	-2.20	18886.750	.5	79243.730	1.5
165.6813	26.02	-3.02	121468.820	5.0	181825.670	4.0
165.6830	26.02	-.83	79840.120	7.0	140196.330	7.0
165.6841	9.02	-4.17	421005.360	.5	481361.170	1.5
165.6842	26.01	-4.49	977.030	.5	61332.820	1.5
165.6882	25.02	-3.55	88880.080	2.5	149234.400	2.5
165.6883	27.02	-2.11	47698.600	1.5	108052.900	2.5
165.6893	27.01	-5.27	4560.800	3.0	64914.710	2.0
165.6910	27.02	-.49	72270.500	3.5	132623.800	3.5
165.6913	27.02	-1.96	73726.600	2.5	134079.800	1.5
165.6921	26.02	-3.69	141539.550	6.0	201892.440	5.0
165.6923	25.01	-4.01	27588.230	3.0	87941.080	4.0
165.6929	6.00	-1.05	0.000	0.0	60352.630	1.0
165.6955	25.01	-2.91	43484.500	2.0	103836.170	2.0
165.6957	26.02	-2.31	79844.740	6.0	140196.330	7.0
165.7008	6.00	-.48	43.400	2.0	60393.140	2.0
165.7015	26.02	-2.28	88663.870	4.0	149013.360	4.0
165.7064	26.01	-1.88	3117.480	1.5	63465.190	1.5
165.7075	23.02	-1.79	85875.740	3.5	146223.050	3.5
165.7097	27.01	-3.16	21624.400	5.0	81970.900	5.0
165.7102	18.01	-1.58	144709.910	.5	205056.220	1.5
165.7116	27.02	-3.98	70934.100	2.5	131279.900	3.5
165.7143	24.01	-8.69	12303.980	3.5	72648.790	3.5
165.7188	24.01	-4.44	31083.110	1.5	91426.310	2.5
165.7227	26.00	-8.24	415.932	3.0	60757.680	4.0
165.7231	25.02	-.85	113991.310	.5	174332.910	1.5
165.7231	25.02	-.34	114094.970	1.5	174436.590	2.5
165.7236	26.02	-3.18	139463.360	5.0	199804.810	4.0
165.7273	27.02	-1.98	77472.300	2.5	137812.400	3.5
165.7279	26.02	-1.90	121468.820	5.0	181808.700	5.0
165.7309	26.00	-5.26	415.932	3.0	60754.710	4.0
165.7311	28.01	-1.64	73903.250	.5	134241.960	.5
165.7340	9.02	-4.49	421005.360	.5	481343.010	.5
165.7379	6.00	-1.18	16.400	1.0	60352.630	1.0
165.7422	27.01	-3.80	22009.230	4.0	82343.900	4.0
165.7517	24.02	-1.02	97306.100	2.0	157637.300	3.0
165.7531	28.01	-3.12	76402.030	2.5	136732.740	1.5
165.7532	27.01	-4.55	4028.900	4.0	64359.560	3.0
165.7541	26.01	-.68	18360.650	1.5	78590.980	2.5
165.7546	18.01	-1.50	150147.620	2.5	210477.770	3.5
165.7581	28.01	-4.20	68965.650	1.5	129294.510	2.5
165.7633	24.03	-1.44	105113.000	4.5	165404.000	4.5
165.7644	27.02	-1.53	46438.300	4.5	106764.900	4.5
165.7652	24.02	-3.10	49827.700	3.0	110154.000	4.0
165.7681	28.01	-3.83	70706.770	1.5	131032.010	2.5
165.7749	25.01	-4.56	49882.150	4.0	110204.900	3.0
165.7768	25.01	-3.74	31760.930	2.0	92083.000	3.0
165.7785	26.02	-3.56	126390.570	1.0	186712.020	1.0
165.7786	23.02	-1.56	98825.190	3.5	159146.600	2.5
165.7789	28.01	-2.88	55417.830	3.5	115739.150	4.5
165.7797	28.02	-3.79	78657.800	0.0	138978.800	1.0
165.7809	26.02	-3.35	77102.430	2.0	137423.000	3.0
165.7819	26.03	-.44	127764.700	.5	188808.900	1.5
165.7822	24.02	-2.91	93765.600	2.0	154085.700	3.0
165.7854	25.01	-2.64	43484.500	2.0	103803.440	3.0
165.7861	26.02	-3.12	88694.670	5.0	149013.360	4.0
165.7877	27.02	-2.38	79425.300	2.5	139743.000	2.5
165.7890	28.03	-1.09	121799.830	2.5	182117.480	3.5
165.7905	8.01	-2.98	185499.200	2.5	245816.290	1.5
165.7907	6.00	-1.05	16.400	1.0	60333.430	0.0
165.7921	27.02	-1.42	72270.500	3.5	132587.000	4.5
165.7961	25.01	-4.25	49889.860	3.0	110204.900	3.0
165.7968	24.02	-.61	97120.300	3.0	157435.100	2.0
165.7974	28.01	-3.04	73893.730	1.5	134208.300	2.5
165.8069	25.01	-3.10	43557.030	1.0	103868.140	1.0
165.8105	27.01	-4.72	950.300	3.0	61260.100	2.0
165.8121	6.00	-.95	43.400	2.0	60352.630	1.0
165.8135	24.01	-2.98	31117.590	2.5	91426.310	2.5
165.8154	28.01	-4.04	56424.490	1.5	116732.510	2.5
165.8158	27.01	-4.02	5204.500	1.0	65512.400	0.0
165.8185	28.01	-3.33	70635.460	2.5	130942.360	1.5
165.8187	28.01	-3.52	70635.460	2.5	130942.360	1.5
165.8198	25.02	-3.12	71395.270	.5	131701.690	1.5
165.8232	15.01	-4.451	45696.800	2.0	106801.990	1.0
165.8243	23.01	-3.05	8640.210	2.0	68945.000	3.0
165.8271	26.02	-1.15	121468.820	5.0	181772.590	6.0
165.8324	26.02	-7.63	21699.900	3.0	82001.730	2.0
165.8378	25.01	-1.30	31760.930	2.0	92060.800	1.0
165.8398	26.01	-4.67	1872.600	4.5	62171.760	3.5
165.8427	23.02	-.84	85524.000	2.5	145822.110	1.5
165.8457	26.04	-1.66	196845.000	4.0	257142.000	5.0
165.8460	28.01	-4.13	76794.640	2.5	127991.560	3.5
165.8467	26.02	-1.69	84671.870	3.0	144968.500	4.0
165.8468	29.02	-.16	63143.600	2.5	123440.200	2.5
165.8502	26.02	-3.57	139509.440	5.0	199804.810	4.0
165.8566	26.02	-1.70	105929.160	3.0	166222.200	4.0
165.8576	30.02	-1.48	236560.000	0.0	296852.700	1.0
165.8636	27.01	-3.74	950.300	3.0	61240.800	3.0
165.8652	20.02	-1.90	325467.670	2.0	385757.660	3.0
165.8658	24.02	-.69	97618.300	5.0	157908.000	4.0
165.8672	26.01	-5.17	667.640	2.5	60956.820	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
165.8691	26.02	-4.53	136612.780	4.0	196901.270	5.0	166.2284	30.02	-1.05	233610.400	2.0	293768.600	1.0
165.8706	25.02	-1.19	114287.910	2.5	174575.870	3.5	166.2295	27.01	-2.55	24886.500	2.0	85044.300	3.0
165.8741	11.02	-3.79	411963.900	1.5	472250.600	.5	166.2303	23.01	-1.83	8640.210	2.0	68797.700	2.0
165.8771	26.01	-1.88	1872.600	4.5	62158.190	4.5	166.2303	26.02	-2.83	139846.180	6.0	200003.700	7.0
165.8774	27.02	-3.70	108403.400	1.5	168688.900	2.5	166.2305	26.02	-2.88	124903.920	2.0	185061.350	1.0
165.8820	28.01	-2.67	75917.630	3.5	136201.460	3.5	166.2306	28.02	-1.45	82277.000	1.0	142434.400	2.0
165.8842	24.03	-2.00	104637.000	3.5	164920.000	3.5	166.2322	26.03	-1.15	127928.100	1.5	188084.900	1.5
165.8914	12.03	-1.45	543727.000	2.5	604007.400	2.5	166.2348	26.01	-9.12	27314.930	3.5	87470.800	4.5
165.8937	28.01	-2.70	54557.050	4.5	114836.630	3.5	166.2357	26.01	-3.18	3117.480	1.5	63273.030	2.5
165.8949	25.01	-2.51	43557.030	1.0	103836.170	2.0	166.2421	26.01	-3.69	36126.410	1.5	96279.650	2.5
165.8956	25.01	-2.09	31760.930	2.0	92039.800	2.0	166.2426	23.02	-2.75	2727.800	3.5	87860.850	2.5
165.8964	24.02	-1.56	97358.700	4.0	157637.300	3.0	166.2437	25.02	-1.76	114094.970	1.5	174247.630	.5
165.8972	27.02	-2.47	77383.100	3.5	137661.400	4.5	166.2455	24.01	-9.16	12496.790	4.5	72648.790	3.5
165.9119	27.01	-6.79	25861.460	0.0	86134.400	1.0	166.2529	26.02	-2.11	124854.040	3.0	185003.350	2.0
165.9193	25.01	-4.98	27588.230	3.0	87858.510	2.0	166.2547	25.02	-1.17	114287.910	2.5	174436.590	2.5
165.9215	25.01	-4.58	27589.030	2.0	87858.510	2.0	166.2591	27.02	-2.86	72341.900	1.5	132489.000	2.5
165.9239	12.02	-1.84	474655.000	2.0	534923.600	3.0	166.2614	5.00	-2.23	0.000	.5	60146.240	.5
165.9296	23.02	-1.84	86716.840	1.5	146983.380	2.5	166.2662	26.02	-8.52	21857.200	2.0	82001.730	2.0
165.9310	25.03	.54	152700.500	4.0	212966.500	5.0	166.2814	25.04	-1.90	183528.000	2.5	243667.000	2.5
165.9333	28.01	-4.37	70635.460	2.5	130900.650	2.5	166.2857	25.02	-2.78	71564.210	1.5	131701.690	1.5
165.9354	24.02	-1.25	94799.600	5.0	155064.000	4.0	166.2944	25.01	-4.43	27583.300	4.0	87717.620	3.0
165.9364	23.02	-1.68	85875.740	3.5	146139.800	2.5	166.3002	29.01	-1.79	73595.640	1.0	133727.870	2.0
165.9376	26.02	-4.06	63486.780	4.0	123750.390	3.0	166.3013	26.02	-1.41	84369.920	2.0	144501.740	2.0
165.9393	9.02	-2.01	395385.660	2.5	455648.670	1.5	166.3033	5.00	-1.93	15.150	1.5	60146.240	.5
165.9405	28.01	-2.99	73893.730	1.5	134156.280	1.5	166.3051	18.01	-4.80	143371.350	1.5	203501.800	2.5
165.9434	28.02	-1.51	82172.900	3.0	142434.400	2.0	166.3065	26.01	-3.81	26352.800	4.5	86482.750	3.5
165.9446	25.01	-1.87	43339.100	2.0	103600.170	2.0	166.3069	28.01	-3.67	70635.460	2.5	130765.260	3.5
165.9479	26.01	-1.66	2430.080	3.5	62689.960	2.5	166.3078	23.02	-1.33	86716.840	1.5	146846.320	1.5
165.9497	26.02	-2.34	139625.170	4.0	199884.390	5.0	166.3080	25.01	-4.39	27588.230	3.0	87717.620	3.0
165.9544	24.01	-2.20	31168.780	3.5	91426.310	2.5	166.3091	24.02	-1.96	97306.100	2.0	157435.100	2.0
165.9577	25.02	-1.39	113991.310	.5	174247.630	.5	166.3102	25.01	-5.51	27589.030	2.0	87717.620	3.0
165.9612	25.02	.25	114209.010	3.5	174464.070	4.5	166.3121	24.02	-1.97	93765.600	2.0	153893.500	2.0
165.9644	28.01	-4.83	70778.120	3.5	131032.010	2.5	166.3132	9.02	-3.10	430012.480	1.5	490140.000	1.5
165.9670	26.02	-2.17	76956.790	3.0	137209.730	4.0	166.3132	9.02	-4.30	430012.480	1.5	490140.000	2.5
165.9737	27.02	-4.13	72341.900	1.5	132592.400	1.5	166.3133	9.01	-3.71	235150.580	2.0	295278.080	1.0
165.9757	27.02	-1.30	77411.600	5.5	137661.400	4.5	166.3157	26.01	-1.48	18360.650	1.5	78487.250	1.5
165.9797	25.01	-4.82	49820.160	2.0	110068.500	2.0	166.3188	23.02	-1.00	98062.220	1.5	158187.700	.5
165.9912	25.02	-1.48	113676.530	2.5	173920.690	1.5	166.3188	9.01	-2.60	235150.580	2.0	295276.080	2.0
165.9928	18.01	-2.00	142186.270	4.5	202429.840	3.5	166.3220	26.02	-2.16	139680.470	3.0	199804.810	4.0
165.9938	23.02	-2.18	86306.400	4.5	146549.620	4.5	166.3220	26.01	-1.99	2837.940	2.5	62962.260	1.5
166.0001	29.01	-2.44	73353.120	2.0	133594.050	3.0	166.3226	26.02	-3.32	82410.940	2.0	142535.070	2.0
166.0062	19.02	-1.10	242165.300	1.5	302404.000	2.5	166.3257	23.02	-1.85	85524.000	2.5	145647.000	1.5
166.0083	25.02	-1.20	114094.970	1.5	174332.910	1.5	166.3270	28.01	-3.19	70778.120	3.5	130900.650	2.5
166.0098	26.03	-1.05	128190.100	2.5	188427.500	2.5	166.3287	12.02	-1.67	474655.000	2.0	534776.900	2.0
166.0099	18.01	-2.69	143107.600	2.5	203344.980	1.5	166.3333	9.01	-1.95	235150.580	2.0	295270.850	3.0
166.0107	28.01	-4.75	56075.260	2.5	116312.340	1.5	166.3362	23.01	-1.35	8640.210	2.0	68759.400	1.0
166.0109	26.04	-1.70	195942.000	3.0	256179.000	4.0	166.3368	10.04	-1.20	641646.000	3.0	701765.000	2.0
166.0148	28.01	-4.79	70706.770	1.5	130942.360	1.5	166.3440	29.02	-1.59	77967.600	2.5	138084.000	2.5
166.0150	28.01	-3.05	70706.770	1.5	130942.360	1.5	166.3445	28.01	-4.45	56075.260	2.5	116191.470	2.5
166.0266	23.02	-1.73	86938.010	2.5	147169.340	3.5	166.3487	27.02	-1.66	47415.400	2.5	107530.100	3.5
166.0280	26.01	-5.07	862.630	1.5	61093.440	2.5	166.3500	25.02	-3.64	72183.330	3.5	132297.550	2.5
166.0369	25.02	-1.42	114209.010	3.5	174436.590	2.5	166.3509	30.02	-2.50	233610.400	2.0	293724.300	2.0
166.0393	10.01	-2.15	252953.540	1.5	313180.230	1.5	166.3512	28.01	-4.35	75917.630	3.5	136031.430	2.5
166.0402	22.01	-2.23	9395.760	1.5	69622.150	2.5	166.3550	26.03	-1.32	127764.700	.5	187877.100	.5
166.0404	24.02	-1.36	97076.900	1.0	157303.200	1.0	166.3592	30.02	-1.83	192763.700	3.0	252874.600	3.0
166.0440	24.02	-1.24	97683.000	3.0	157908.000	4.0	166.3608	28.02	-1.99	79143.300	2.0	139253.600	2.0
166.0475	14.00	-2.39	77.115	1.0	60300.860	2.0	166.3617	18.01	-2.22	150474.900	1.5	210584.880	1.5
166.0508	25.01	-1.99	30795.750	4.0	91018.300	3.0	166.3652	9.02	-4.55	380250.520	2.5	440359.260	3.5
166.0524	26.01	-1.96	27314.930	3.5	87536.900	3.5	166.3662	25.02	-3.82	85346.720	6.5	145455.100	7.5
166.0575	24.01	-1.57	12496.790	4.5	72716.910	4.5	166.3695	26.01	-3.03	2837.940	2.5	62945.120	3.5
166.0592	18.01	-3.16	144709.910	.5	204929.400	.5	166.3697	24.02	-3.52	56992.200	3.0	117099.300	4.0
166.0619	27.02	-1.29	72270.500	3.5	132489.000	2.5	166.3714	26.02	-4.21	124954.880	1.0	185061.350	1.0
166.0633	27.02	-1.96	73861.800	1.5	134079.800	1.5	166.3780	26.01	-3.31	36252.960	2.5	96357.070	3.5
166.0752	27.01	-4.63	22414.500	3.0	82628.200	3.0	166.3780	22.01	-3.32	9518.050	2.5	69622.150	2.5
166.0838	26.01	-2.28	1872.600	4.5	62083.170	4.5	166.3794	25.02	-3.67	116580.170	1.5	176683.760	2.5
166.0890	29.02	-1.38	78779.400	1.5	138988.100	1.5	166.3810	23.01	-1.68	8841.970	3.0	68945.000	3.0
166.0981	24.01	-2.86	31351.150	2.5	91556.540	1.5	166.3818	26.00	-5.60	704.003	2.0	60806.720	3.0
166.1013	27.01	-6.22	5204.500	1.0	65408.710	2.0	166.3823	23.02	-1.74	85875.740	3.5	145978.270	2.5
166.1032	9.02	-1.83	355981.900	1.5	416185.420	2.5	166.3848	25.00	-5.22	0.000	2.5	60101.650	2.5
166.1077	27.02	-1.69	79425.300	2.5	139627.200	1.5	166.3909	26.02	-3.85	124903.920	2.0	185003.350	2.0
166.1113	26.02	-3.51	84369.920	2.0	144570.530	3.0	166.3946	26.02	-1.91	122346.610	3.0	182444.700	3.0
166.1124	26.02	-2.14	89084.790	3.0	149285.000	3.0	166.3961	26.02	-1.62	124854.040	3.0	184951.620	3.0
166.1179	8.02	-5.39	113.900	1.0	60312.100	2.0	166.3982	24.02	-4.55	50408.200	5.0	110505.000	6.0
166.1196	23.02	-2.67	28746.800	2.5	88944.380	2.5	166.4030	28.01	-3.10	70635.460	2.5	130730.530	2.5
166.1295	26.04	-1.96	195212.000	2.0	255406.000	3.0	166.4043	24.02	-2.80	49626.800	2.0	109721.400	3.0
166.1298	28.01	-3.75	70706.770	1.5	130900.650	2.5	166.4073	25.02	-2.53	116851.690	3.5	176945.200	4.5
166.1301	27.02	-1.02	72083.300	4.5	132277.100	3.5	166.4093	23.02	-1.70	98062.220	1.5	158155.000	1.5
166.1305	28.01	-4.53	70748.700	.5	130942.360	1.5							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
166.5006	26.02	-3.82	139846.180	6.0	199906.030	6.0	166.7698	25.02	-0.32	114501.180	4.5	174464.070	4.5
166.5011	28.01	-3.81	75917.630	3.5	135977.310	4.5	166.7706	24.02	-4.29	99840.700	3.0	159803.300	4.0
166.5046	26.02	-4.83	63494.560	2.0	123552.950	1.0	166.7716	26.02	-3.95	147305.970	3.0	207268.200	4.0
166.5048	26.01	-7.34	977.030	.5	61035.370	.5	166.7723	29.02	-4.19	136482.900	1.5	196444.900	1.5
166.5079	26.02	-2.22	139827.170	4.0	199884.430	5.0	166.7732	27.01	-4.56	22009.230	4.0	81970.900	5.0
166.5099	24.02	-1.50	94029.200	3.0	154085.700	3.0	166.7761	8.02	-1.07	368526.370	1.0	428487.000	1.0
166.5116	28.01	-3.06	70635.460	2.5	130691.350	1.5	166.7762	26.02	-2.49	166421.330	4.0	226381.910	3.0
166.5140	24.02	-1.45	94799.600	5.0	154854.600	6.0	166.7807	28.01	-2.75	73903.250	.5	133862.210	1.5
166.5218	18.01	-1.62	150474.900	1.5	210527.100	2.5	166.7817	28.01	-2.54	74283.330	.5	134241.960	.5
166.5235	28.01	-2.22	73903.250	.5	133954.850	.5	166.7859	26.02	-3.98	84159.550	4.0	144116.640	3.0
166.5252	10.01	-4.55	246192.450	2.5	306243.420	2.5	166.7861	26.02	-4.50	147305.970	3.0	207263.000	3.0
166.5254	27.02	-0.67	46438.300	4.5	106489.200	3.5	166.7881	25.01	-3.33	49517.580	5.0	109473.900	4.0
166.5262	24.02	-1.02	97618.300	5.0	157668.900	6.0	166.7884	27.01	-5.40	3350.500	5.0	63306.700	5.0
166.5279	24.02	-0.49	94799.600	5.0	154849.600	5.0	166.7897	23.01	-1.20	8841.970	3.0	68797.700	2.0
166.5291	23.02	-2.26	49805.290	3.5	109854.870	3.5	166.7906	25.02	-0.11	114287.910	2.5	174243.330	3.5
166.5304	11.02	-3.18	412201.500	.5	472250.600	.5	166.7911	26.01	-0.87	18886.750	.5	78841.970	.5
166.5321	26.02	-4.60	124954.880	1.0	185003.350	2.0	166.7929	19.02	-1.19	243947.400	1.5	303902.000	1.5
166.5334	30.02	-1.36	233610.400	2.0	293658.400	3.0	166.7932	28.01	-2.32	73903.250	.5	133857.730	.5
166.5343	26.02	-2.78	124903.920	2.0	184951.620	3.0	166.7937	24.02	-2.77	97683.000	3.0	157637.300	3.0
166.5374	25.01	-4.13	49427.320	4.0	109473.900	4.0	166.7948	25.02	-0.08	114094.970	1.5	174048.890	2.5
166.5392	26.02	-2.20	122346.610	3.0	182392.550	2.0	166.7990	28.01	-4.63	70778.120	3.5	130730.530	2.5
166.5402	26.01	-5.13	7955.240	3.5	68000.820	4.5	166.8001	24.02	-3.70	71166.100	2.0	131118.100	2.0
166.5407	23.02	-0.27	86938.010	2.5	146983.380	2.5	166.8012	27.02	-1.14	47003.100	3.5	106954.700	2.5
166.5418	25.02	-0.72	114287.910	2.5	174332.910	1.5	166.8018	27.02	-3.69	7741.600	5.5	137363.000	6.5
166.5422	23.01	-4.40	16340.970	3.0	76385.800	3.0	166.8043	26.02	-2.53	89334.510	2.0	149285.000	3.0
166.5445	25.01	-3.66	38366.070	2.0	98410.100	2.0	166.8045	23.02	-0.08	87218.920	3.5	147169.340	3.5
166.5447	26.02	-2.66	86847.110	2.0	146891.040	3.0	166.8057	25.02	-0.91	135732.500	4.5	195682.500	5.5
166.5476	28.01	-1.89	10663.890	1.5	70706.770	1.5	166.8058	10.01	-1.91	252953.540	1.5	312903.480	2.5
166.5534	23.02	-2.51	86306.400	4.5	146347.200	5.5	166.8085	26.03	-0.84	127928.100	1.5	187877.100	.5
166.5551	26.02	-2.44	82494.880	1.0	142535.070	2.0	166.8085	25.02	-2.73	116692.140	2.5	176641.140	3.5
166.5598	27.02	-1.30	77622.900	4.5	137661.400	4.5	166.8089	26.00	-5.76	415.932	3.0	60364.760	3.0
166.5606	26.02	-3.44	139846.180	6.0	199884.430	5.0	166.8117	28.01	-2.36	52738.450	2.5	112686.300	2.5
166.5610	26.02	-4.25	128917.510	2.0	188955.560	3.0	166.8157	26.02	-3.79	147326.850	4.0	207273.230	5.0
166.5610	18.01	-4.22	150474.900	1.5	210512.980	1.5	166.8182	24.02	-3.42	71321.800	3.0	131267.300	4.0
166.5618	26.01	-4.54	70778.120	3.5	130815.910	3.5	166.8246	24.02	-3.23	49491.000	1.0	109434.200	2.0
166.5671	11.01	-2.16	293224.120	1.0	353260.000	1.0	166.8254	24.02	-2.00	49626.800	2.0	109569.700	2.0
166.5714	25.02	-0.33	114209.010	3.5	174243.330	3.5	166.8297	26.02	-4.66	147326.850	4.0	207268.200	4.0
166.5764	25.03	-3.21	137853.000	4.0	197885.500	3.0	166.8306	28.01	-2.48	74300.300	1.5	134241.960	.5
166.5801	25.01	-6.70	29919.220	2.0	89950.400	3.0	166.8409	26.02	-2.64	139764.480	2.0	199701.820	3.0
166.5917	23.02	-2.81	85875.740	3.5	145902.730	4.5	166.8429	12.00	-2.92	0.000	0.0	59936.630	1.0
166.5923	28.01	-3.92	75917.630	3.5	135944.400	3.5	166.8435	26.03	-1.22	128966.300	4.5	188902.700	3.5
166.5926	26.01	-3.87	36252.960	2.5	96279.650	2.5	166.8486	24.01	-3.91	31168.780	3.5	91103.360	4.5
166.5961	28.01	-3.92	71770.830	2.5	131796.260	2.5	166.8520	14.00	-1.14	77.115	1.0	60010.458	1.0
166.5975	24.01	-4.30	31531.620	1.5	91556.540	1.5	166.8570	22.01	-3.71	9395.760	1.5	69327.320	1.5
166.5994	15.03	-2.49	256602.700	1.0	316627.000	1.0	166.8581	26.02	-1.39	140453.100	3.0	200384.280	3.0
166.6007	28.01	-3.57	70706.770	1.5	130730.530	2.5	166.8613	26.02	-3.22	82382.870	3.0	142312.900	3.0
166.6022	28.01	-3.93	70778.120	3.5	130801.330	4.5	166.8630	27.01	-5.03	22414.500	3.0	82343.900	4.0
166.6046	8.02	-1.33	368583.630	2.0	428606.000	2.0	166.8631	25.02	-0.31	113991.310	.5	173920.690	1.5
166.6078	26.01	-4.18	33466.500	4.5	93487.710	3.5	166.8684	23.01	-1.92	19112.930	4.0	79040.400	3.0
166.6122	28.02	-0.48	84604.800	1.0	144624.400	1.0	166.8707	26.00	-4.36	0.000	4.0	59926.620	5.0
166.6160	26.01	-4.09	33466.500	4.5	93484.750	4.5	166.8713	26.02	-3.44	84159.550	4.0	144085.970	4.0
166.6178	26.01	-4.83	384.770	3.5	60402.380	2.5	166.8738	28.01	-4.94	76402.030	2.5	136327.550	1.5
166.6245	28.01	-4.45	67880.160	2.5	127895.330	3.5	166.8782	25.02	-4.28	112645.310	.5	172569.270	1.5
166.6262	25.02	-2.18	86051.500	2.5	146066.070	1.5	166.8789	28.01	-3.68	55018.710	2.5	114942.420	1.5
166.6295	27.02	-0.70	71873.700	5.5	131887.100	4.5	166.8857	8.02	-0.58	368684.750	3.0	428606.000	2.0
166.6376	14.00	-1.27	0.000	0.0	60010.458	1.0	166.8925	30.02	-1.96	234384.000	3.0	294302.800	4.0
166.6409	25.01	-3.92	27570.950	5.0	87580.230	4.0	166.8985	23.02	-0.30	86306.400	4.5	146223.050	3.5
166.6423	25.01	-3.59	49465.130	3.0	109473.900	4.0	166.9115	25.01	-4.45	30684.810	1.0	90596.800	2.0
166.6426	25.02	-3.51	84610.530	.5	144619.190	1.5	166.9131	18.02	-1.54	144885.970	2.0	204797.370	3.0
166.6483	27.02	-1.63	72270.500	3.5	132277.100	3.5	166.9142	25.01	-6.44	29889.310	3.0	89800.340	4.0
166.6498	26.02	-3.20	79840.120	7.0	139846.180	6.0	166.9162	27.01	-3.77	5204.500	1.0	65114.800	0.0
166.6522	8.02	-4.82	306.900	2.0	60312.100	2.0	166.9163	26.02	-3.35	121919.740	3.0	181830.020	3.0
166.6553	28.01	-3.39	70706.770	1.5	130710.850	.5	166.9201	26.02	-2.43	121919.740	3.0	181828.660	2.0
166.6627	26.02	-0.94	79844.740	6.0	139846.180	6.0	166.9204	25.03	-3.81	188756.200	3.0	248665.000	4.0
166.6631	28.02	-1.80	53703.700	5.0	113705.000	4.0	166.9218	23.02	-0.83	86938.010	2.5	146846.320	1.5
166.6674	28.01	-2.39	73903.250	.5	133903.000	1.5	166.9224	23.02	-2.03	87218.920	3.5	147127.000	2.5
166.6747	24.02	-1.95	97306.100	2.0	157303.200	1.0	166.9231	24.01	-5.64	20512.620	2.5	80420.430	2.5
166.6752	25.01	-4.68	27583.300	4.0	87580.230	4.0	166.9234	23.01	-6.03	19132.690	2.0	79040.400	3.0
166.6829	28.01	-1.49	57080.550	3.5	117074.700	3.5	166.9265	29.02	-1.26	85446.000	1.5	145353.000	1.5
166.6839	28.02	-0.61	82194.300	5.0	142188.100	6.0	166.9274	25.02	-0.86	117063.740	4.5	176970.010	5.5
166.6856	27.02	-2.12	78927.800	3.5	138921.000	4.5	166.9278	25.02	-3.47	172855.020	4.5	232761.160	5.5
166.6861	5.00	-1.15	0.000	.5	59993.000	1.5	166.9284	26.02	-3.19	121919.740	3.0	181825.670	4.0
166.6889	25.01	-5.48	27588.230	3.0	87580.230	4.0	166.9304	30.02	-1.34	237047.800	2.0	296953.000	2.0
166.6899	25.02	-1.97	116692.140	2.5	176683.760	2.5	166.9323	25.02	-3.84	86486.770	1.5	146391.300	.5
166.6950	18.01	-3.97	150474.900	1.5	210464.710	2.5	166.9326	18.02	-0.70	144892.950	3.0	204797.370	3.0
166.6951	25.00	-6.37	0.000	2.5	59989.770	1.5	166.9355	8.02	-0.60	368583.630	2.0	428487.000	1.0
166.6981	25.03	-4.49	112882.800	5.0	172871.500	5.0	166.9390	28.03	-2.09	122377.910	1.5	182280.040	.5
166.6987	28.01	-3.50	53634.620	1.5	113623.100	.5	166.9391						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
167.0023	23.01	-4.18	16340.970	3.0	76220.400	2.0	167.2257	28.01	-3.77	76402.030	2.5	136201.460	3.5
167.0056	26.02	-4.58	126390.570	1.0	186268.790	2.0	167.2272	26.02	-3.18	66591.680	1.0	126390.570	1.0
167.0065	25.03	-4.12	111506.000	1.0	171383.900	1.0	167.2275	27.01	-4.70	4560.800	3.0	64359.560	3.0
167.0076	27.02	-3.02	83799.600	2.5	143677.100	3.0	167.2339	9.02	-1.78	356371.820	2.5	416168.300	1.5
167.0117	26.02	-2.84	121949.620	5.0	181825.670	4.0	167.2344	24.02	-4.43	71321.800	3.0	131118.100	3.0
167.0138	29.02	-2.26	67016.600	3.5	126891.900	2.5	167.2352	25.02	-3.42	172682.640	3.5	232478.680	4.5
167.0156	26.02	-2.53	139827.170	4.0	199701.820	3.0	167.2380	28.01	-2.13	56075.260	2.5	115870.280	2.5
167.0162	28.03	-2.20	122377.910	1.5	182252.330	1.5	167.2444	26.02	-1.71	147326.850	4.0	207119.600	3.0
167.0188	30.02	-2.24	237047.800	2.0	296921.300	3.0	167.2458	26.02	-0.89	147326.850	4.0	207119.100	4.0
167.0215	26.02	-3.09	142047.000	4.0	201919.530	4.0	167.2472	26.02	-4.47	147326.850	4.0	207118.600	5.0
167.0217	26.02	-2.06	140453.100	3.0	200325.560	4.0	167.2479	15.00	-0.31	11376.400	2.5	71167.900	2.5
167.0294	25.02	-3.22	71831.980	2.5	131701.690	1.5	167.2519	26.02	-3.93	105929.160	3.0	165719.200	4.0
167.0321	24.01	-3.55	31117.590	2.5	90986.310	3.5	167.2536	25.02	-1.86	116851.690	3.5	176641.140	3.5
167.0352	26.02	-2.57	66522.950	2.0	126390.570	1.0	167.2546	18.01	-4.23	155043.070	2.5	214832.170	3.5
167.0358	26.02	-2.25	121941.290	4.0	181808.700	5.0	167.2569	23.02	-2.22	98399.420	5	158187.700	5
167.0365	25.01	-3.30	38542.960	3.0	98410.100	2.0	167.2581	14.03	-2.84	254127.080	2.5	313914.920	2.5
167.0383	26.02	-1.48	122944.150	4.0	182810.660	5.0	167.2581	14.03	-1.70	254127.080	2.5	313914.920	1.5
167.0445	24.02	-0.84	94029.200	3.0	153893.500	2.0	167.2592	25.01	-1.73	31514.350	4.0	91301.800	5.0
167.0537	18.02	-1.87	209151.820	2.0	269012.800	2.0	167.2596	14.00	-1.03	223.157	2.0	60010.458	1.0
167.0590	26.02	-2.94	121949.620	5.0	181808.700	5.0	167.2635	14.03	-1.54	254129.030	3.5	313914.920	2.5
167.0616	15.00	-2.81	18722.650	4.5	78580.800	1.5	167.2680	25.00	-5.67	0.000	2.5	59784.310	3.5
167.0619	26.02	-2.18	122628.340	2.0	182486.400	1.0	167.2752	28.01	-3.70	55299.650	4.5	115081.360	4.5
167.0623	30.02	-2.02	236560.000	0.0	296417.900	1.0	167.2767	29.01	-3.24	71531.500	3.0	131312.700	3.0
167.0672	23.02	-3.50	98383.530	2.5	158239.700	2.5	167.2784	26.02	-1.16	122628.340	2.0	182408.910	3.0
167.0672	23.02	-1.13	87544.460	4.5	147400.620	4.5	167.2853	29.02	-1.76	80422.800	5	140200.900	1.5
167.0734	10.01	-2.56	254165.010	1.5	314018.940	5	167.2878	26.02	-4.29	119982.260	1.0	179759.490	2.0
167.0740	30.02	-2.26	211725.500	2.0	271579.200	3.0	167.2923	24.01	-5.15	20512.620	2.5	80288.250	1.5
167.0742	15.01	-4.81	45696.800	2.0	105550.450	2.0	167.2960	28.01	-3.38	56371.410	3.5	116145.690	3.5
167.0746	26.01	-0.35	1872.600	4.5	61726.090	3.5	167.2966	28.01	-3.14	53634.620	1.5	113408.710	1.5
167.0777	26.02	-2.59	122628.340	2.0	182480.720	2.0	167.2999	25.03	-4.01	189210.900	4.0	248983.800	5.0
167.0787	26.01	-1.52	2837.940	2.5	62689.960	2.5	167.3005	28.01	-3.99	53634.620	1.5	113407.310	2.5
167.0795	18.02	-1.86	209127.040	1.0	268978.800	1.0	167.3006	25.02	-0.63	116692.140	2.5	176464.780	3.5
167.0852	13.01	-0.32	0.000	0.0	59849.700	1.0	167.3007	24.02	-4.24	17676.200	4.0	131448.800	5.0
167.0855	27.02	-2.84	73861.800	1.5	133711.400	2.5	167.3024	24.03	-2.57	173674.000	1.5	233446.000	2.5
167.0872	18.02	-1.18	209151.820	2.0	269000.800	3.0	167.3039	23.02	-2.99	98383.530	2.5	158155.000	1.5
167.0879	20.02	-2.04	323003.560	1.0	382852.300	2.0	167.3073	26.02	-3.58	83138.230	5.0	142908.480	5.0
167.0891	30.02	-0.66	194303.300	2.0	254151.600	2.0	167.3077	30.02	-0.15	78096.300	3.0	137860.400	2.0
167.0922	23.01	-1.02	9097.810	4.0	68945.000	3.0	167.3165	28.01	-4.01	56424.490	1.5	116191.470	2.5
167.0930	27.02	-3.75	78927.800	3.5	138774.700	2.5	167.3169	24.01	-3.83	31219.490	4.5	90986.310	3.5
167.0971	26.02	-2.35	142047.000	4.0	201892.440	5.0	167.3169	28.01	-2.86	74300.930	1.5	134067.760	1.5
167.0990	26.01	-1.57	3117.480	1.5	62962.260	1.5	167.3183	18.02	-1.19	144882.930	1.0	206449.240	2.0
167.0999	20.02	-4.10	279353.640	1.0	339198.090	1.0	167.3213	9.02	-4.06	430374.750	2.5	490140.000	1.5
167.1018	25.02	-0.78	113991.310	4.5	173835.070	5	167.3213	9.02	-2.94	430374.750	2.5	490140.000	2.5
167.1029	25.02	-0.75	116851.690	3.5	176695.060	4.5	167.3226	24.02	-2.25	57422.100	4.0	117186.900	5.0
167.1033	26.02	-4.82	142312.900	3.0	202156.130	2.0	167.3227	26.02	-2.77	79860.420	5.0	139625.170	4.0
167.1036	27.02	-2.04	110961.500	1.5	170804.600	1.5	167.3235	23.02	-0.69	87218.920	3.5	146983.380	2.5
167.1064	15.00	-1.11	11360.800	1.5	71202.900	1.5	167.3238	26.02	-2.11	17354.750	5.0	207119.100	4.0
167.1103	27.01	-5.69	4560.800	3.0	64401.500	4.0	167.3242	26.02	-1.15	122628.340	2.0	182392.550	2.0
167.1116	26.02	-1.91	76956.790	3.0	136797.050	3.0	167.3252	26.02	-1.07	17354.750	5.0	207118.600	5.0
167.1117	14.00	-1.40	77.115	1.0	59917.336	2.0	167.3266	26.02	-0.30	147354.750	5.0	207118.100	6.0
167.1126	25.02	-1.10	114209.010	3.5	174048.890	2.5	167.3269	18.02	-0.60	144885.970	2.0	206449.240	2.0
167.1167	26.02	-1.33	147281.690	1.0	207120.100	2.0	167.3271	27.01	-6.46	4028.900	4.0	63792.100	4.0
167.1190	29.02	-4.50	136607.300	2.5	196444.900	1.5	167.3310	27.02	-1.39	47003.100	3.5	106764.900	4.5
167.1206	26.02	-2.02	76956.790	3.0	136793.820	2.0	167.3333	25.02	-1.53	114287.910	2.5	174048.890	2.5
167.1233	25.02	-4.13	84981.630	3.5	144817.680	3.5	167.3355	26.02	-3.14	128371.530	0.0	188131.700	1.0
167.1249	28.02	-3.06	79143.300	2.0	138978.800	1.0	167.3374	26.02	-4.01	123697.180	2.0	183456.690	3.0
167.1323	15.00	-2.10	18747.950	1.5	78580.800	1.5	167.3389	25.02	-3.17	85200.760	5.0	144959.740	4.5
167.1344	25.02	-1.73	116851.690	3.5	176683.760	2.5	167.3404	18.02	-0.39	144892.950	3.0	204649.240	2.0
167.1406	26.02	-3.08	84671.870	3.0	144501.740	2.0	167.3466	26.01	-0.09	15844.710	4.5	75600.930	3.5
167.1433	26.02	-0.93	147291.210	2.0	207120.100	2.0	167.3469	26.00	-4.93	415.932	3.0	60172.060	4.0
167.1447	26.02	-0.93	147291.210	2.0	207119.600	3.0	167.3484	23.02	-1.49	98399.420	5	158155.000	1.5
167.1448	10.01	-4.83	246415.040	1.5	306243.420	2.5	167.3488	26.02	-1.93	89861.880	1.0	158417.310	2.0
167.1455	26.02	-3.75	89697.520	3.0	149525.630	2.0	167.3567	28.01	-2.99	57080.550	3.5	116833.150	4.5
167.1464	30.02	-2.93	237047.800	2.0	296875.600	2.0	167.3581	28.01	-3.24	74300.930	1.5	134053.050	2.5
167.1478	18.01	-2.28	142717.020	3.5	202544.320	2.5	167.3581	24.02	-2.43	97683.000	3.0	157435.100	2.0
167.1487	18.02	-2.78	209151.820	2.0	268978.800	1.0	167.3588	28.01	-3.33	56075.260	2.5	115827.120	3.5
167.1500	15.00	-0.71	11376.400	2.5	71202.900	1.5	167.3593	25.03	-2.39	12013.300	3.0	171765.000	4.0
167.1522	25.02	-2.06	114094.970	1.5	173920.690	1.5	167.3604	27.01	-5.85	1597.200	2.0	61348.500	1.0
167.1566	27.01	-3.90	5204.500	1.0	65028.650	1.0	167.3647	25.01	-3.67	43850.420	2.0	103600.170	2.0
167.1599	26.02	-1.93	121949.620	5.0	181772.590	6.0	167.3660	28.02	-0.69	82826.900	4.0	142576.200	5.0
167.1637	28.01	-1.93	58493.210	2.5	118314.820	2.5	167.3696	27.02	-0.37	71623.100	6.5	131371.100	5.5
167.1655	28.03	-1.29	122377.910	1.5	182198.850	2.5	167.3723	23.01	-4.11	12545.150	4.0	72292.200	4.0
167.1673	15.00	-0.36	0.000	1.5	59820.300	5	167.3731	24.02	-2.17	49491.000	1.0	109237.400	1.0
167.1680	28.01	-3.18	56371.410	3.5	116191.470	2.5	167.3758	24.02	-1.08	50408.200	5.0	110154.000	4.0
167.1740	28.01	-4.59	55018.710	2.5	114836.630	3.5	167.3792	26.02	-3.61	140693.360	3.0	200437.940	2.0
167.1746	25.00	-6.47	0.000	2.5	59817.700	2.5	167.3802	18.01	-2.25	149179.170	3.5	208923.410	2.5
167.1760	30.02	-2.22	194303.300	2.0	254120.500	3.0	167.3829	28.01	-2.18	56424.490	1.5	116167.760	1.5
167.1775	23.02												

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
167.4555	26.02	-4.71	83138.230	5.0	142855.590	4.0
167.4577	25.02	-3.49	172547.850	2.5	232264.420	3.5
167.4596	15.00	-0.05	0.000	1.5	59715.900	1.5
167.4599	29.02	-0.28	68963.600	2.5	128679.400	2.5
167.4629	26.01	-4.65	13474.430	2.5	73189.160	1.5
167.4630	18.01	-3.87	155351.030	1.5	215065.710	1.5
167.4631	26.01	-3.24	1872.600	4.5	61587.240	5.5
167.4682	18.01	-3.00	142717.020	3.5	202429.840	3.5
167.4683	26.02	-2.79	87901.870	3.0	147614.650	2.0
167.4683	24.02	-2.15	17136.000	5.0	131448.800	5.0
167.4714	26.01	-1.09	3117.480	1.5	62829.160	1.5
167.4733	24.02	-1.66	94374.700	4.0	154085.700	3.0
167.4741	28.01	-2.82	73903.250	1.5	133613.990	1.5
167.4755	27.01	-5.53	5204.500	1.0	64914.710	2.0
167.4770	26.02	-3.59	140196.330	7.0	199906.030	6.0
167.4792	28.02	-2.76	79143.300	2.0	138852.200	3.0
167.4852	26.02	-3.02	123750.390	3.0	183457.150	4.0
167.4860	23.02	-4.57	99440.100	2.5	159146.600	2.5
167.4865	26.02	-4.92	123750.390	3.0	183456.690	3.0
167.4935	23.02	-5.00	42371.200	1.5	102075.000	2.5
167.4935	24.02	-1.40	100099.500	4.0	159803.300	4.0
167.4964	18.01	-4.35	132630.650	1.5	192333.430	1.5
167.4988	25.01	-3.69	29869.110	2.0	89571.030	3.0
167.5023	26.02	-3.89	119982.260	1.0	179682.940	1.0
167.5070	30.02	-2.98	234576.000	4.0	294275.000	3.0
167.5076	25.03	-1.94	152700.500	4.0	212399.300	3.0
167.5083	25.02	-2.37	116692.140	2.5	176390.670	2.5
167.5109	25.02	-2.74	173063.550	5.5	232761.160	5.5
167.5193	26.02	-1.44	77102.430	2.0	136797.050	3.0
167.5193	26.02	-2.71	119982.260	1.0	179676.890	2.0
167.5205	14.00	-1.53	223.157	2.0	59917.336	2.0
167.5279	26.02	-4.78	137209.730	4.0	196901.270	5.0
167.5283	26.02	-2.29	77102.430	2.0	136793.820	2.0
167.5283	22.01	-2.15	9930.740	1.5	69622.150	2.5
167.5297	26.02	-3.29	140693.360	3.0	200384.280	3.0
167.5301	25.02	-3.86	84981.630	3.5	144672.380	2.5
167.5320	25.02	-0.50	116580.170	1.5	176270.250	2.5
167.5408	26.02	-3.85	140750.980	2.0	200437.940	2.0
167.5446	25.02	-2.18	116580.170	1.5	176265.780	1.5
167.5463	25.03	-1.46	112013.300	3.0	171698.300	2.0
167.5527	25.02	-1.88	135732.500	4.5	195415.200	4.5
167.5555	25.01	-6.34	29869.110	3.0	89571.030	3.0
167.5579	20.02	-3.35	326186.320	3.0	385867.200	3.0
167.5586	18.02	-0.71	144882.930	1.0	204563.530	1.0
167.5622	25.02	-3.88	85200.760	5.5	144880.100	5.5
167.5672	18.02	-0.82	144885.970	2.0	204563.530	1.0
167.5682	24.02	-4.14	57422.100	4.0	117099.300	4.0
167.5696	12.02	-1.75	475502.900	1.0	535179.600	2.0
167.5702	28.01	-3.43	53496.490	5.5	113172.960	4.5
167.5716	28.02	-3.94	62606.300	3.0	122282.300	2.0
167.5786	25.03	-0.73	117110.400	2.0	171383.900	1.0
167.5797	30.02	-1.65	237047.800	2.0	296720.900	3.0
167.5800	25.03	-2.60	112408.900	4.0	172081.900	3.0
167.5841	28.01	-3.58	74283.330	1.5	133954.850	1.5
167.5866	23.01	-5.08	12621.570	5.0	72292.200	4.0
167.5911	26.01	-1.52	13674.430	2.5	73143.480	3.5
167.5953	28.01	-4.50	55417.830	3.5	115085.360	3.5
167.6033	26.02	-3.68	79844.740	6.0	139509.440	5.0
167.6036	27.02	-2.95	17873.700	5.5	131538.300	4.5
167.6040	23.01	-2.68	31514.350	4.0	91178.800	4.0
167.6049	26.02	-2.03	82382.870	3.0	142047.000	4.0
167.6061	28.02	-1.93	78482.900	1.0	138146.600	0.0
167.6066	28.01	-2.65	55417.830	3.5	115081.360	4.5
167.6083	27.01	-4.27	1597.200	2.0	61260.100	2.0
167.6144	26.00	-5.39	704.003	2.0	60364.760	3.0
167.6155	26.02	-2.34	84671.870	3.0	144332.210	4.0
167.6235	24.02	-1.60	94799.600	5.0	154457.100	4.0
167.6278	26.02	-1.67	76956.790	3.0	136612.780	4.0
167.6308	24.02	-2.23	49491.000	1.0	109145.900	0.0
167.6318	28.01	-1.31	57420.160	2.5	117074.700	3.5
167.6336	28.01	-3.24	74300.930	1.5	133954.850	1.5
167.6355	18.02	-3.74	226355.960	2.0	286009.210	2.0
167.6359	26.01	-2.01	2430.080	3.5	62083.170	4.5
167.6391	28.01	-2.19	57080.550	3.5	116732.510	2.5
167.6395	25.01	-5.74	29919.220	2.0	89571.030	3.0
167.6413	26.02	-2.56	122829.550	3.0	182460.720	2.0
167.6415	30.02	-2.54	234384.000	3.0	294035.100	2.0
167.6430	25.02	-2.59	176113.870	2.5	232264.420	3.5
167.6438	30.02	-0.54	234384.000	3.0	294034.300	4.0
167.6442	25.01	-4.66	29869.110	2.0	89519.250	2.0
167.6463	29.02	-4.49	80551.500	2.5	140200.900	1.5
167.6473	26.02	-1.76	79860.420	5.0	139509.440	5.0
167.6488	28.01	-4.20	76402.030	2.5	136050.320	2.5
167.6552	22.01	-1.37	9975.920	1.5	69622.150	2.5
167.6626	27.01	-5.01	1597.200	2.0	61240.800	3.0
167.6630	24.01	-5.19	25033.950	3.5	84677.390	3.5
167.6632	26.02	-1.40	122843.030	1.0	182466.400	1.0
167.6648	27.02	-2.02	47864.800	1.5	107507.600	1.5
167.6707	30.02	-0.19	192763.700	3.0	252404.400	3.0
167.6725	26.01	-4.16	1872.600	4.5	61512.670	4.5
167.6780	23.02	-3.77	99508.500	1.5	159146.600	2.5
167.6792	26.02	-1.17	122843.030	1.0	182480.720	2.0
167.6821	14.00	-2.97	0.000	0.0	59636.667	1.0
167.6842	25.02	-4.37	89898.080	1.5	149533.980	1.5
167.6854	26.01	-1.28	2430.080	3.5	62065.570	3.5
167.6863	24.01	-3.77	31351.150	2.5	90986.310	3.5
167.6893	25.02	-0.70	135781.090	5.5	195415.200	4.5
167.6915	26.02	-3.66	140750.980	2.0	200384.280	3.0
167.6930	25.02	-0.45	114287.910	2.5	173920.690	1.5
167.6941	25.03	-4.77	188756.200	3.0	248388.600	3.0
167.6946	24.02	-1.24	50089.200	4.0	109721.400	3.0
167.6971	25.02	-0.40	117063.740	4.5	176695.060	4.5
167.6998	24.01	-7.64	25047.040	2.5	84677.390	3.5
167.7010	25.01	-9.57	29869.110	3.0	89519.250	2.0
167.7037	25.02	-3.04	116580.170	1.5	176209.150	1.5
167.7125	8.01	-3.78	188888.380	1.5	248514.230	1.5
167.7152	23.02	-0.75	87544.460	4.5	147169.340	3.5
167.7154	27.02	-2.03	110371.200	2.5	169996.000	1.5
167.7165	18.01	-4.19	155043.070	2.5	214667.480	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
167.7187	25.02	-2.70	172855.020	4.5	232478.680	4.5
167.7260	26.02	-2.80	142535.070	2.0	202156.130	2.0
167.7299	28.01	-3.54	74283.330	1.5	133903.000	1.5
167.7315	26.01	-5.45	2430.080	3.5	62049.170	2.5
167.7328	26.02	-2.95	79844.740	6.0	139463.360	5.0
167.7353	26.02	-2.94	83237.860	3.0	142855.590	4.0
167.7374	29.02	.28	89045.900	3.5	148662.900	2.5
167.7385	27.02	-2.64	72270.500	3.5	131887.100	4.5
167.7426	26.02	-.75	122829.550	3.0	182444.700	3.0
167.7430	26.01	-4.83	27314.930	3.5	86929.920	3.5
167.7435	25.02	-1.63	89898.080	1.5	149512.900	1.5
167.7464	25.02	-3.12	172451.230	1.5	232065.030	2.5
167.7475	27.02	-1.18	72270.500	3.5	131883.900	2.5
167.7484	25.02	-.26	116851.690	3.5	176464.780	3.5
167.7496	18.02	-3.24	180679.000	1.0	240291.660	2.0
167.7531	26.01	-5.44	26932.740	1.5	86544.140	1.5
167.7554	24.02	-1.87	49626.800	2.0	109237.400	1.0
167.7585	24.01	-5.51	21822.860	2.5	81432.360	3.5
167.7603	28.01	-1.77	58705.950	1.5	118314.820	2.5
167.7666	26.02	-2.96	142312.900	3.0	201919.530	4.0
167.7669	24.02	-1.85	49827.700	3.0	109434.200	2.0
167.7770	26.02	-1.01	79860.420	5.0	139463.360	5.0
167.7794	28.01	-3.31	74300.930	1.5	133903.000	1.5
167.7813	28.02	-1.66	79250.800	4.0	138852.200	3.0
167.7830	28.01	-4.45	70635.460	2.5	130236.260	2.5
167.7838	26.01	-.71	18886.750	1.5	78487.250	1.5
167.7842	25.00	-5.24	0.000	2.5	59600.350	2.5
167.7852	25.01	-6.43	29919.220	2.0	89519.250	2.0
167.7897	27.02	-1.30	47698.600	1.5	107297.000	1.5
167.7925	22.01	-2.39	10024.740	2.5	69622.150	2.5
167.7956	23.02	-4.08	86306.400	4.5	145902.730	4.5
167.7979	26.02	-2.35	98661.880	1.0	158257.370	1.0
167.8010	25.03	-1.66	112882.800	5.0	172477.200	4.0
167.8049	26.04	-2.28	195212.000	2.0	254805.000	2.0
167.8062	15.00	-2.13	18747.950	1.5	78340.500	2.5
167.8079	25.02	-1.82	86051.500	2.5	145643.450	2.5
167.8085	25.01	-3.50	49882.150	4.0	109473.900	4.0
167.8103	24.02	-2.16	71676.200	4.0	131267.300	4.0
167.8117	15.02	-.95	141512.800	1.5	201103.400	1.5
167.8122	28.01	-3.06	53634.620	1.5	113225.060	1.5
167.8157	20.02	-2.79	326186.320	3.0	385775.500	4.0
167.8158	26.02	-.28	122829.550	3.0	182418.700	4.0
167.8203	26.02	-2.09	122898.840	2.0	182486.400	1.0
167.8218	25.04	-1.56	183528.000	2.5	243115.000	1.5
167.8266	28.01	-3.44	56371.410	3.5	115956.710	2.5
167.8302	28.01	-3.82	74020.030	2.5	135986.060	3.5
167.8302	25.01	-4.70	49889.860	3.0	109473.900	4.0
167.8328	26.02	-1.32	122829.550	3.0	182412.650	4.0
167.8363	26.02	-1.31	122898.840	2.0	182480.720	2.0
167.8365	25.02	-2.77	176682.640	3.5	232264.420	3.5
167.8383	23.02	-2.72	28746.800	2.5	88327.960	3.5
167.8390	28.02	-1.57	153256.100	4.0	212837.000	4.0
167.8400	26.01	-2.63	13474.430	2.5	73054.970	2.5
167.8407	24.02	-.64	71868.500	6.0	131448.800	5.0
167.8434	26.02	-1.32	122829.550	3.0	182408.910	3.0
167.8435	25.02	-3.17	86486.770	1.5	146066.070	1.5
167.8447	28.01	-1.60	74283.330	1.5	133862.210	1.5
167.8455	18.02	-1.70	180679.000	1.0	240257.590	1.0
167.8469	25.02	-.36	116692.140	2.5	176270.250	2.5
167.8476	28.01	-.75	52205.950	3.5	111783.790	3.5
167.8529	25.01	-7.78	29889.310	3.0	89465.300	4.0
167.8538	26.02	-4.79	76956.790	3.0	136532.450	2.0
167.8573	28.01	-3.52	74283.330	1.5	133857.730	1.5
167.8595	25.02	-1.89	116692.140	2.5	176265.780	1.5
167.8627	26.01	-3.19	3117.480	1.5	62689.960	2.5
167.8651	25.01	-2.60	9472.970	2.0	69044.610	2.0
167.8661	20.02	-4.19	326186.320	3.0	385757.600	3.0
167.8668	24.01	-5.58	25033.950	3.5	84604.990	2.5
167.8680	28.03	-2.05	122709.410	1.5	182280.040	1.5
167.8750	25.01	-6.73	29951.120	1.0	89519.250	2.0
167.8757	11.02	-1.70	406200.900	2.5	465768.800	2.5
167.8796	25.03	-1.92	111710.400	2.0	171276.900	3.0
167.8837	26.02	-1.55	122921.370	1.0	182486.400	1.0
167.8895	26.02	-1.90	122829.550	3.0	182392.550	2.0
167.8895	7.01	-5.00	32688.800	0.0	92251.800	1.0
167.8916	26.02	-3.56	70694.030	5.0	130256.270	5.0
167.8926	24.01	-7.01	25043.100	1.5	84604.990	2.5
167.8943	28.01	-2.09	74300.930	1.5	133862.210	1.5
167.8988	25.01	-5.99	29889.310	2.0	89428.800	3.0
167.8992	14.00	-3.06	77.115	1.0	59636.667	1.0
167.8998	26.02	-.66	122921.370	1.0	182480.720	2.0
167.9033	27.01	-3.05	4028.900	4.0	63587.000	3.0
167.9037	24.01	-5.48	25047.040	2.5	84604.990	2.5
167.9069	28.01	-1.93	74300.930	1.5	133857.730	1.5
167.9151	29.02	.13	63886.300	1.5	123440.200	2.5
167.9162	8.02	-.62	297557.500	1.0	357111.000	2.0
167.9190	23.02	.63	102961.280	3.5	162513.800	4.5
167.9247	24.02	.51	95304.100	6.0	154854.600	6.0
167.9275	26.02	-.86	122843.030	1.0	182392.550	2.0
167.9321	14.03	-3.16	276503.670	1.5	336051.550	1.5
167.9326	30.02	-1.69	234576.000	4.0	294123.700	3.0
167.9379	26.01	-.22	16369.390	3.5	75915.210	2.5
167.9388	24.02	-.42	95304.100	6.0	154849.600	5.0
167.9390	25.02	.27	135869.760	3.5	195415.200	4.5
167.9396	27.02	-4.30	79425.300	2.5	138970.500	1.5
167.9398	25.02	-3.18	86520.940	2.5	146066.070	1.5
167.9405	24.02	-1.27	57422.100	4.0	116967.000	4.0
167.9430	24.03	-2.34	174103.000	2.5	233647.000	3.5
167.9461	28.03	-1.64	122709.410	1.5	182252.330	1.5
167.9467	12.02	-1.01	474655.000	2.0	534197.700	1.0
167.9487	27.02	-3.38	72341.900	1.5	131883.900	2.5
167.9490	26.01	-1.28	13474.430	2.5	73016.330	3.5
167.9512	25.03	-1.27	152858.200	3.0	212399.300	3.0
167.9524	25.02	-4.28	84981.630	3.5	145422.300	4.5
167.9540	30.02	-.83	190341.300	4.0	249881.400	4.0
167.9546	24.02	-1.48	56992.200	3.0	115632.100	3.0
167.9550	26.01	-5.29	862.630	1.5	60402.380	2.5
167.9558	25.01	-.92	29889.310	3.0	89428.800	3.0
167.9563	27.02	-1.01	47415.400	2.5	106954.700	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
167.9572	25.02	-3.58	116851.690	3.5	176390.670	2.5	168.2221	25.02	-4.56	85077.090	4.5	144522.300	4.5
167.9605	23.02	-2.87	86809.390	5.5	146347.200	5.5	168.2234	26.02	-2.92	84671.870	3.0	144116.640	3.0
167.9628	26.02	-4.08	128605.650	1.0	188142.640	2.0	168.2315	24.02	-1.79	71676.200	4.0	131118.100	3.0
167.9628	28.01	-3.78	55299.650	4.5	114836.630	3.0	168.2373	18.01	-2.02	151087.250	2.5	210527.100	2.5
167.9629	8.01	-3.73	188888.380	.5	248425.350	.5	168.2451	28.02	-1.76	53703.700	5.0	113140.800	5.0
167.9669	25.02	-1.77	113078.340	1.5	172613.870	2.5	168.2462	18.01	-3.00	143107.600	2.5	202544.320	2.5
167.9687	24.02	-1.31	99840.700	3.0	159375.600	3.0	168.2490	26.02	.08	122944.150	4.0	182379.860	5.0
167.9698	15.00	.12	0.000	1.5	59534.500	2.5	168.2529	28.01	-3.36	74300.930	1.5	133735.260	2.5
167.9730	25.02	-3.40	85346.720	6.5	144880.100	5.5	168.2590	27.02	-3.37	47864.800	.5	107297.000	1.5
167.9733	14.01	-3.79	65500.730	.5	125034.000	1.5	168.2593	18.01	-3.54	142717.020	3.5	202149.110	2.5
167.9763	28.01	-4.28	56424.490	1.5	115956.710	2.5	168.2621	27.02	-2.30	71623.100	6.5	131054.200	5.5
167.9789	24.02	-1.72	71736.000	5.0	131267.300	4.0	168.2651	26.02	-2.82	77102.430	2.0	136532.450	2.0
167.9840	28.01	-3.63	70706.770	1.5	130236.260	2.5	168.2658	30.02	-1.42	234576.000	4.0	294005.800	5.0
167.9885	25.00	-5.76	0.000	2.5	59527.890	1.5	168.2673	14.00	-2.12	77.115	1.0	59506.359	2.0
167.9895	26.02	-2.83	70728.750	4.0	130256.270	5.0	168.2686	29.02	.02	85446.400	1.5	144875.200	1.5
167.9937	26.02	-2.92	128605.650	1.0	188131.700	1.0	168.2697	28.01	-3.89	70706.770	1.5	130135.190	1.5
167.9937	18.02	-2.50	226355.960	2.0	285882.000	1.0	168.2748	23.01	-2.47	106421.510	4.0	75848.130	3.0
167.9960	18.01	-2.07	145668.800	1.5	205194.040	1.5	168.2773	18.01	-4.71	151087.250	2.5	210512.980	1.5
167.9981	14.01	-4.25	65500.730	.5	125025.200	.5	168.2846	28.01	-3.11	70358.940	4.5	129782.070	3.5
168.0020	12.03	-1.30	545143.500	1.5	604666.600	1.5	168.2851	23.02	-1.76	86716.840	1.5	146139.800	2.5
168.0051	20.01	-1.19	25414.400	1.5	84936.410	2.5	168.2969	28.01	-4.23	55417.830	3.5	114836.630	3.5
168.0065	27.02	-4.15	111283.100	.5	178004.600	1.5	168.2976	25.02	-1.85	116851.690	3.5	176270.250	2.5
168.0092	25.02	-3.80	116580.170	1.5	176100.710	.5	168.2987	28.01	-3.02	57420.160	2.5	116838.330	1.5
168.0129	20.01	-2.15	25414.400	1.5	84933.650	1.5	168.3011	23.01	-2.70	16340.970	3.0	75758.290	2.0
168.0152	23.02	-4.14	42267.400	2.5	101785.810	1.5	168.3020	24.00	-8.21	0.000	3.0	59417.010	3.0
168.0182	26.01	-4.50	32909.870	5.5	92427.220	4.5	168.3034	30.02	-2.33	237047.800	2.0	296464.300	2.0
168.0187	25.02	-2.93	172547.850	2.5	232065.030	2.5	168.3040	12.03	.30	543727.000	2.5	603143.300	3.5
168.0190	25.01	-1.62	31661.720	3.0	91178.800	4.0	168.3044	25.00	-8.50	0.000	2.5	59416.150	1.5
168.0192	25.02	-3.42	116692.140	2.5	176209.150	1.5	168.3073	25.02	-2.50	173063.550	5.5	232478.680	4.5
168.0195	23.04	.11	148100.100	.5	207617.000	1.5	168.3088	23.02	-5.92	42371.200	1.5	101785.810	1.5
168.0222	25.02	-3.68	89052.440	3.5	148568.400	2.5	168.3091	23.02	-2.48	98825.190	3.5	158239.700	2.5
168.0222	26.01	-3.38	13673.210	1.5	73189.160	1.5	168.3119	29.01	-1.88	71531.500	3.0	130945.000	2.0
168.0270	28.01	-5.65	13673.210	1.5	73187.460	.5	168.3119	14.00	-2.91	223.157	2.0	59636.667	1.0
168.0359	28.01	-7.68	29070.930	1.5	88582.010	1.5	168.3125	25.03	.32	152986.000	2.0	212399.300	3.0
168.0376	27.02	-1.55	82363.300	4.5	141873.800	5.5	168.3159	29.01	-1.29	69704.800	4.0	129116.900	3.0
168.0388	26.02	-4.45	122898.840	2.0	182408.910	3.0	168.3211	18.01	-1.72	145668.800	1.5	205079.070	2.5
168.0402	25.01	-1.19	29919.220	2.0	89428.800	3.0	168.3217	24.01	-7.49	18222.860	2.5	81232.910	2.5
168.0433	25.02	-3.00	172755.950	3.5	232264.420	3.5	168.3231	27.01	-6.75	4950.000	2.0	64359.560	3.0
168.0436	23.02	.71	103034.650	4.5	162543.000	5.5	168.3235	25.02	-2.69	172855.020	4.5	232264.420	3.5
168.0445	26.02	-3.47	125443.580	4.0	184951.620	3.0	168.3272	24.01	-5.41	21824.820	1.5	81232.910	2.5
168.0445	25.02	-3.85	89052.440	3.5	148560.500	4.5	168.3314	26.01	-4.40	2837.940	2.5	62244.570	1.5
168.0470	23.01	-3.46	16340.970	3.0	75848.130	3.0	168.3333	28.01	-2.92	9330.040	3.5	68735.980	2.5
168.0503	18.02	-1.85	226503.220	3.0	286009.210	2.0	168.3380	26.02	-4.95	63494.560	2.0	122898.840	2.0
168.0561	25.01	-3.40	31514.350	4.0	91018.300	3.0	168.3391	29.02	-3.97	137041.000	.5	196444.900	1.5
168.0569	26.02	-2.76	128605.650	1.0	188109.320	0.0	168.3394	18.01	-2.71	144709.910	.5	204113.710	1.5
168.0588	26.02	-3.09	120179.950	0.0	179682.940	1.0	168.3414	12.00	-2.70	0.000	0.0	59403.110	1.0
168.0641	30.02	-1.83	192763.700	3.0	252264.800	4.0	168.3472	25.02	-1.99	117063.740	4.5	176464.780	3.5
168.0657	26.02	-2.52	122944.150	4.0	182444.700	3.0	168.3485	28.02	-1.56	83033.800	2.0	142434.400	2.0
168.0674	28.01	-3.91	76402.030	2.5	135901.960	2.5	168.3519	24.02	-1.32	56992.200	3.0	116391.600	2.0
168.0704	28.01	-3.36	56371.410	3.5	115870.280	2.5	168.3527	27.02	-2.45	110371.200	2.5	169770.300	2.5
168.0720	27.02	-1.74	72083.300	4.5	13158.600	3.5	168.3558	23.01	-2.09	2687.010	2.0	62085.020	2.0
168.0739	18.01	-3.29	151087.250	2.5	210584.880	1.5	168.3599	22.01	-3.91	9930.740	1.5	69327.320	1.5
168.0746	27.02	-1.48	71873.700	5.5	131371.100	5.5	168.3672	27.02	-1.82	110961.500	1.5	170355.500	2.5
168.0792	25.02	-3.88	172569.270	1.5	232065.030	2.5	168.3689	28.02	-1.03	97841.400	2.0	157234.800	1.0
168.0805	26.02	-2.85	142535.070	2.0	202030.380	3.0	168.3719	26.02	-2.25	141002.990	4.0	200395.300	5.0
168.0850	26.02	-1.44	122898.840	2.0	182392.550	2.0	168.3762	27.01	-5.17	3350.500	5.0	62741.300	6.0
168.0859	18.01	-3.88	132481.140	2.5	191974.530	1.5	168.3770	18.01	-1.35	151087.250	2.5	210477.770	3.5
168.0923	23.02	-3.49	27727.800	3.5	87218.920	3.5	168.3796	26.02	-2.37	77075.300	1.0	136464.900	1.0
168.0929	25.02	-3.18	113078.340	1.5	172569.270	1.5	168.3802	30.02	-1.84	194303.300	2.0	253692.700	2.0
168.1019	24.00	-7.41	0.000	3.0	59487.710	4.0	168.3827	26.02	-4.98	125672.830	2.0	185061.350	1.0
168.1035	10.01	-1.84	254165.010	1.5	313652.170	1.5	168.3858	18.01	-2.33	145668.800	1.5	205056.220	1.5
168.1065	27.02	-1.11	47003.100	3.5	106489.200	3.5	168.3885	28.01	-3.49	70748.700	.5	130135.190	1.5
168.1109	26.01	-1.60	2837.940	2.5	62322.500	3.5	168.3943	25.00	-6.75	0.000	2.5	59384.450	1.5
168.1141	26.02	-3.57	122346.610	3.0	181830.020	3.0	168.4001	25.02	-2.87	172682.640	3.5	232065.030	2.5
168.1161	11.02	-2.60	411963.900	1.5	471446.600	1.5	168.4008	26.01	-1.47	18360.650	1.5	77742.780	2.5
168.1210	26.02	-4.28	119697.640	2.0	179178.620	3.0	168.4015	24.02	.16	100421.400	5.0	159803.300	4.0
168.1215	25.00	-6.52	0.000	2.5	59480.800	2.5	168.4019	26.01	-2.41	13673.210	1.5	73054.970	2.5
168.1224	27.01	-4.82	4028.900	4.0	63509.370	4.0	168.4032	26.02	-2.37	141002.990	4.0	200384.280	3.0
168.1232	23.01	-1.61	2604.820	1.0	62085.020	2.0	168.4086	28.02	-1.41	97996.300	3.0	157375.700	4.0
168.1257	28.02	-1.36	71383.700	2.0	130863.000	1.0	168.4128	27.02	-4.55	73214.500	.5	132594.400	1.5
168.1261	23.02	-1.20	103034.650	4.5	162513.800	4.5	168.4141	18.01	-3.86	151087.250	2.5	210464.710	2.5
168.1264	26.02	-2.80	122346.610	3.0	181825.670	4.0	168.4162	28.02	-2.25	75646.900	4.0	135023.600	3.0
168.1269	26.02	-1.61	83429.610	6.0	142908.480	5.0	168.4173	26.01	-4.84	44232.510	4.5	103608.620	4.5
168.1301	26.02	-3.11	63486.390	5.0	122944.150	4.0	168.4221	26.01	-3.99	32875.630	6.5	92250.270	6.5
168.1339	22.01	-1.63	9850.900	.5	69327.320	1.5	168.4225	10.01	-4.92	246192.450	2.5	305566.940	1.5
168.1391	26.02	-1.46	122944.150	4.0	182418.700	4.0	168.4243	22.01	-5.09	93.940	2.5	59467.810	3.5
168.1449	14.03	-2.90	276579.030	1.5	336051.550	2.5	168.4257	26.02	-2.03	137527.920	4.0	196901.270	5.0
168.1449	14.03	-3.86	276579.030	1.5	336051.550	1.5	168.4						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
168.4963	26.02	-3.49	63494.560	2.0	122843.030	1.0	168.7800	26.02	-1.52	140453.100	3.0	199701.820	3.0
168.4983	25.01	-9.92	27589.030	2.0	86936.800	2.0	168.7820	23.02	-1.59	85524.000	2.5	144772.020	3.5
168.5036	30.02	-3.07	237506.800	1.0	296852.700	1.0	168.7852	27.01	-1.65	9812.700	4.0	69059.590	3.0
168.5082	9.02	-4.61	460908.950	1.5	466253.240	1.5	168.7873	23.02	-1.13	87880.850	2.5	147127.000	2.5
168.5087	28.02	-1.82	79143.300	2.0	138487.400	3.0	168.7887	26.02	-2.07	30088.840	3.0	89334.510	2.0
168.5094	18.01	-4.86	132630.650	1.5	191974.530	1.5	168.7903	28.02	.45	71067.000	3.0	130312.100	4.0
168.5119	24.03	-2.42	174103.000	2.5	233446.000	2.5	168.7903	11.02	-3.39	412201.500	.5	471446.600	1.5
168.5146	23.02	-2.23	99804.570	2.5	159146.600	2.5	168.7953	26.02	-4.06	76956.790	3.0	136200.130	3.0
168.5195	30.02	-1.22	234384.000	3.0	293724.300	2.0	168.7982	22.01	-4.31	225.470	3.5	59467.810	3.5
168.5209	28.01	-3.10	67880.160	2.5	127219.970	3.5	168.8049	24.03	-1.49	174854.000	3.5	234094.000	4.5
168.5217	25.00	-5.05	0.000	2.5	59339.550	3.5	168.8098	25.01	-3.96	33278.390	3.0	92516.650	4.0
168.5251	25.02	-2.46	116580.170	1.5	175918.500	.5	168.8138	25.01	-1.53	30523.450	6.0	89760.330	5.0
168.5261	27.02	-2.56	76791.100	1.5	136129.100	2.5	168.8143	25.01	-7.38	29889.310	3.0	89126.000	3.0
168.5266	27.02	-2.67	73286.000	4.5	132623.800	3.5	168.8146	28.02	-3.47	79250.800	4.0	138487.400	3.0
168.5330	26.02	-4.91	63494.000	3.0	122829.550	3.0	168.8222	25.02	-3.89	85077.090	4.5	144311.000	5.5
168.5374	26.04	-3.48	196845.000	4.0	256179.000	4.0	168.8242	27.02	-2.49	110961.500	1.5	170194.700	.5
168.5379	26.01	-7.05	2837.940	2.5	62171.760	3.5	168.8251	30.02	-2.14	237642.700	3.0	296875.600	2.0
168.5468	23.02	-1.54	87218.920	3.5	146549.620	4.5	168.8259	26.01	-3.49	27314.930	3.5	86547.550	2.5
168.5469	28.01	-2.17	74283.330	.5	133613.990	1.5	168.8264	28.01	-3.69	54176.260	.5	113408.710	1.5
168.5473	26.02	-4.31	125672.830	2.0	185003.350	2.0	168.8290	26.01	-1.55	16369.390	3.5	75600.930	3.5
168.5577	23.02	-1.18	103034.650	4.5	162361.500	5.5	168.8297	27.01	-6.70	4560.800	3.0	63792.100	4.0
168.5594	15.00	-2.11	18722.650	.5	78048.900	.5	168.8395	22.01	-4.71	93.940	2.5	59321.790	2.5
168.5641	23.01	-1.64	2808.760	3.0	62133.390	3.0	168.8401	26.01	-1.61	2837.940	2.5	62065.570	3.5
168.5699	26.02	-2.47	141002.990	4.0	200325.560	4.0	168.8472	26.02	-2.66	128917.510	2.0	188142.640	2.0
168.5701	25.01	-5.24	27546.900	6.0	86869.390	6.0	168.8476	25.04	-1.60	183528.000	2.5	242753.000	3.5
168.5708	18.01	-4.36	143107.600	2.5	202429.840	3.5	168.8485	27.02	-2.86	110371.200	2.5	169595.900	3.5
168.5721	22.01	-5.34	0.000	1.5	59321.790	2.5	168.8490	27.02	-1.61	71873.700	5.5	131098.200	4.5
168.5728	25.02	-3.61	85200.760	5.5	144522.300	4.5	168.8500	25.01	-4.97	32858.840	2.0	92083.000	3.0
168.5732	30.02	-1.29	234866.900	1.0	294188.300	2.0	168.8596	30.02	-1.87	80850.200	1.0	140071.000	1.0
168.5873	18.01	-4.15	155351.030	1.5	214667.480	2.5	168.8613	27.02	-4.18	73286.000	4.5	132506.200	5.5
168.5890	26.02	-2.88	89697.520	3.0	149013.360	4.0	168.8619	29.02	.04	86133.000	.5	145353.000	1.5
168.5898	28.01	-3.52	73893.730	1.5	133209.300	2.5	168.8776	20.02	-1.21	272188.700	1.0	331403.200	1.0
168.5909	27.01	-2.94	4028.900	4.0	63344.100	3.0	168.8784	26.02	-3.01	128917.510	2.0	188131.700	1.0
168.5914	10.03	-4.75	641908.000	.5	701223.000	.5	168.8869	26.01	-6.16	2837.940	2.5	62049.170	2.5
168.5931	29.02	-3.46	138084.000	2.5	197398.400	2.5	168.8875	24.02	-2.08	114354.900	4.0	173565.900	5.0
168.5931	25.01	-9.01	27583.300	4.0	86897.700	3.0	168.8898	23.02	-4.38	27727.800	3.5	86938.010	2.5
168.5952	26.01	-1.16	2837.940	2.5	62151.610	2.5	168.8910	25.01	-6.63	29869.110	2.0	89078.900	2.0
168.5953	26.02	-3.27	125637.980	3.0	184951.620	3.0	168.8956	26.02	-3.87	66464.640	3.0	125672.830	2.0
168.5957	28.02	-1.85	97841.400	2.0	157154.900	2.0	168.8958	13.02	-1.35	143713.500	1.5	202921.600	.5
168.5963	25.03	-1.27	130969.500	3.0	190282.800	3.0	168.8960	23.01	-4.42	2968.220	4.0	62176.240	4.0
168.5969	28.01	-1.77	74300.930	1.5	133613.990	1.5	168.8982	25.01	-6.11	29889.310	3.0	89096.560	4.0
168.5971	15.00	-1.01	11376.400	2.5	70689.400	3.5	168.8993	28.01	-3.27	70635.460	2.5	129842.330	2.5
168.5990	28.01	-3.60	57420.160	2.5	116732.510	2.5	168.8995	11.02	-2.94	406562.000	1.5	465768.800	2.5
168.6025	27.02	-1.64	72270.500	3.5	131581.600	3.5	168.8996	25.01	-9.01	29919.220	2.0	89126.000	3.0
168.6048	30.02	-2.41	237642.700	3.0	296953.000	2.0	168.9035	23.02	.05	99941.200	3.5	159146.600	2.5
168.6070	26.01	-5.97	27620.390	2.5	86929.920	3.5	168.9044	29.02	.11	80551.500	2.5	139756.600	2.5
168.6071	25.01	-9.60	27588.230	3.0	86897.700	3.0	168.9138	23.02	.04	86938.010	2.5	146139.800	2.5
168.6082	25.02	-3.86	172755.950	3.5	232065.030	2.5	168.9141	26.02	-3.23	122628.340	2.0	181830.020	3.0
168.6091	18.01	-1.60	145668.800	1.5	204977.590	2.5	168.9180	26.02	-4.07	122628.340	2.0	181828.660	2.0
168.6188	28.01	-5.05	14995.970	2.5	74300.930	1.5	168.9228	15.00	-1.23	18747.950	1.5	77946.600	2.5
168.6192	23.01	-1.81	8841.970	3.0	68147.200	4.0	168.9230	26.01	-4.83	44784.780	2.5	103983.350	3.5
168.6210	29.02	.21	78779.400	1.5	138084.000	2.5	168.9268	20.02	-2.47	323655.060	2.0	382852.300	2.0
168.6218	28.02	-1.02	86646.200	2.0	145950.500	1.0	168.9275	17.02	-4.17	146749.900	2.5	205946.900	2.5
168.6267	22.01	-3.70	10024.740	2.5	69327.320	1.5	168.9286	27.02	-1.80	72083.300	4.5	131279.900	3.5
168.6312	27.02	-2.14	73286.000	4.5	132587.000	4.5	168.9290	14.00	-2.29	77.115	1.0	59273.575	1.0
168.6314	15.00	-2.50	18747.950	1.5	78048.900	.5	168.9352	26.01	-2.45	33501.320	3.5	92695.620	2.5
168.6385	25.01	-5.62	27570.950	5.0	86869.390	6.0	168.9415	26.02	-2.37	128917.510	2.0	188109.580	3.0
168.6420	26.02	-4.22	83237.860	3.0	142535.070	2.0	168.9434	25.01	-3.51	14593.820	3.0	73785.250	2.0
168.6441	28.01	-4.88	73893.730	1.5	133190.190	1.5	168.9443	24.02	-1.05	99840.700	3.0	159031.800	2.0
168.6454	26.01	-1.22	2430.080	3.5	61726.090	3.5	168.9458	18.01	-1.75	150147.620	2.5	209338.210	3.5
168.6471	25.01	-4.40	32787.600	4.0	92083.000	3.0	168.9486	25.01	-1.01	29889.310	3.0	89078.900	2.0
168.6580	28.02	-1.56	75123.800	5.0	134415.400	4.0	168.9560	25.01	-2.71	14593.820	3.0	73780.810	3.0
168.6619	25.00	-6.91	0.000	2.5	59290.230	3.5	168.9616	25.01	-1.87	38542.960	3.0	97728.000	3.0
168.6628	29.02	-2.80	138084.000	2.5	197373.900	3.5	168.9679	25.01	-4.72	32856.950	3.0	92039.800	2.0
168.6668	23.02	-1.81	87880.850	2.5	147169.340	3.5	168.9680	28.01	-4.43	75917.630	3.5	135100.450	3.5
168.6676	13.02	-1.65	143633.380	.5	202921.600	.5	168.9707	25.02	-1.62	136500.630	6.5	195682.500	5.5
168.6678	28.01	-8.88	29593.460	.5	88881.590	.5	168.9746	27.02	-1.98	71873.700	5.5	131054.200	5.5
168.6688	27.02	-3.53	72083.300	4.5	131371.100	5.5	168.9766	29.02	-2.53	136607.300	2.5	195877.100	3.5
168.6690	26.01	-1.43	2837.940	2.5	62125.660	1.5	168.9824	25.01	-4.59	35004.430	3.0	94182.200	3.0
168.6766	23.02	-1.42	86938.010	2.5	146223.050	3.5	168.9829	30.02	-1.27	234866.900	1.0	294044.500	1.0
168.6787	26.01	-2.24	1872.600	4.5	61156.900	3.5	168.9831	25.01	-4.63	54846.000	0.0	114023.500	1.0
168.6788	26.01	-1.90	13904.870	.5	73189.160	1.5	168.9832	26.01	-1.07	13474.430	2.5	72651.910	3.5
168.6818	14.00	-1.64	223.157	2.0	59506.359	2.0	168.9860	27.02	-1.46	47415.400	2.5	106591.900	1.5
168.6836	26.01	-2.54	13904.870	.5	73187.460	.5	168.9869	26.02	-2.78	83358.880	2.0	142535.070	2.0
168.6895	8.02	-1.06	297557.500	1.0	356838.000	1.0	168.9883	25.02	-1.10	135732.500	4.5	194908.200	5.5
168.6898	28.01	-4.71	72375.420	1.5	131655.830	.5	168.9902	28.01	-4.69	68156.570	1.5	127331.600	2.5
168.6944	26.02	-4.69	125672.830	2.0	184951.620	3.0	168.9909	26.02	-3.33	142855.590	4.0	202030.380	3.0
168.6949	30.02	-1.19	237642.700	3.0	296921.300	3.0	168.9917	8.02	-1.70				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
169.0732	18.01	-4.36	143107.600	2.5	202253.590	1.5	169.3331	27.01	-2.82	4560.800	3.0	63616.000	2.0
169.0755	26.01	-1.09	13474.430	2.5	72619.610	2.5	169.3424	26.02	-2.89	76956.790	3.0	136008.740	3.0
169.0769	28.01	-3.52	54262.630	3.5	113407.310	2.5	169.3432	28.01	-2.66	53634.620	1.5	112686.300	2.5
169.0789	14.00	-2.09	77.115	1.0	59221.110	0.0	169.3468	14.00	-2.06	223.157	2.0	59273.575	1.0
169.0816	10.02	-3.45	353177.160	2.0	412320.210	2.0	169.3475	26.01	-1.46	13474.430	2.5	72524.620	1.5
169.0818	28.01	-1.51	74300.930	1.5	133443.890	2.5	169.3498	23.01	-0.80	9097.810	4.0	68147.200	4.0
169.0881	15.00	-1.57	18747.950	1.5	77888.700	1.5	169.3515	28.01	-3.31	54176.260	2.5	113225.060	2.5
169.0952	28.02	-0.86	82277.000	1.0	141415.300	1.0	169.3531	28.01	-2.26	57420.160	2.5	116468.400	1.5
169.0972	26.02	-2.47	137763.700	5.0	196901.270	5.0	169.3539	15.00	-1.49	18722.650	2.5	77770.600	2.5
169.0974	28.02	-0.06	98238.200	4.0	157375.700	4.0	169.3563	28.02	-1.31	54657.900	4.0	113705.000	4.0
169.0984	26.01	-6.47	2837.940	2.5	61975.110	1.5	169.3572	27.02	-4.72	73540.200	3.5	132587.000	4.5
169.1005	26.01	-4.09	33466.500	4.5	92602.940	3.5	169.3612	26.01	-4.13	7955.240	3.5	67000.630	2.5
169.1005	20.02	-4.73	323655.060	2.0	382791.500	3.0	169.3621	28.01	-4.45	71770.830	2.5	130815.910	3.5
169.1019	10.02	-3.12	353177.160	2.0	412313.110	1.0	169.3691	26.02	-2.86	77075.300	1.0	136117.940	2.0
169.1065	26.02	-2.77	63494.000	3.0	122628.340	2.0	169.3708	26.02	-2.97	90483.590	3.0	149525.630	2.0
169.1073	23.02	-1.37	28746.800	2.5	87880.850	2.5	169.3724	18.01	-4.26	143107.600	2.5	202149.110	2.5
169.1081	26.02	-3.65	63494.560	2.0	122628.340	2.0	169.3759	23.02	-0.13	86938.010	2.5	145978.270	2.5
169.1166	28.02	-0.62	97841.400	2.0	156972.200	3.0	169.3796	10.03	-4.06	642184.000	1.5	701223.000	2.5
169.1185	25.01	-3.50	14781.190	2.0	73911.310	1.0	169.3798	26.02	-3.64	141399.040	2.0	200437.940	2.0
169.1194	28.01	-2.81	17770.830	2.5	130900.650	2.5	169.3925	27.02	-3.79	110961.500	1.5	169996.000	1.5
169.1199	20.02	-1.35	323655.060	2.0	382784.700	3.0	169.3935	26.01	-1.57	3117.480	1.5	62151.810	2.5
169.1208	26.02	-3.28	69788.190	1.0	128917.510	2.0	169.3939	25.04	-1.93	184633.000	3.5	243667.000	2.5
169.1228	18.01	-1.83	147503.020	1.5	206631.670	2.5	169.3944	26.02	-2.25	76956.790	3.0	135990.620	4.0
169.1252	25.01	-1.22	29951.120	1.0	89078.900	2.0	169.4022	27.01	-2.70	9812.700	4.0	68843.800	4.0
169.1272	25.02	-1.62	135781.090	5.5	194908.200	5.5	169.4031	15.00	-0.10	11360.800	1.5	70391.600	2.5
169.1272	26.01	-1.23	3117.480	1.5	62244.570	1.5	169.4040	26.02	-1.15	123455.920	0.0	182486.400	1.0
169.1287	25.02	-0.26	173306.450	6.5	232433.030	7.5	169.4163	27.01	-3.48	4560.800	3.0	63587.000	3.0
169.1395	10.02	-3.74	353197.400	1.0	412320.210	2.0	169.4243	25.01	-1.89	9472.970	2.0	68496.370	1.0
169.1403	25.02	-2.70	86520.940	2.5	145643.450	2.5	169.4265	15.00	-1.79	18747.950	1.5	77770.600	2.5
169.1409	26.02	-1.85	137763.700	5.0	196886.010	6.0	169.4271	26.02	-2.49	98661.880	1.0	157684.300	2.0
169.1413	24.00	-8.13	0.000	3.0	59122.150	3.0	169.4276	56.01	-2.24	5674.824	0.0	64697.085	0.0
169.1443	25.01	-1.99	30679.240	5.0	89800.340	4.0	169.4309	28.02	-0.86	71841.900	1.0	130863.000	1.0
169.1454	8.01	-3.79	188888.380	2.5	248009.100	1.5	169.4314	18.01	-3.66	144709.910	2.5	203730.860	1.5
169.1481	9.02	-2.56	430374.750	2.5	489494.530	3.5	169.4451	26.02	-2.71	82382.870	3.0	141399.040	2.0
169.1495	25.02	-3.09	135781.090	5.5	194900.400	5.5	169.4470	26.02	-3.83	77102.430	2.0	136117.940	2.0
169.1564	26.01	-1.66	1872.600	4.5	60989.480	4.5	169.4478	10.01	-2.44	254165.010	1.5	313180.230	1.5
169.1572	25.00	-6.57	0.000	2.5	59116.600	2.5	169.4479	15.00	-1.26	11376.400	2.5	70391.600	2.5
169.1576	26.02	-4.13	141539.550	6.0	200656.020	6.0	169.4483	26.01	-1.27	1872.600	4.5	60887.660	5.5
169.1577	23.02	-3.58	105282.650	2.5	164399.100	3.5	169.4487	27.02	-1.96	72083.300	4.5	131098.200	4.5
169.1598	10.02	-2.88	353197.400	1.0	412313.110	1.0	169.4529	23.01	-3.25	3162.800	5.0	62176.240	4.0
169.1617	26.02	-2.90	66522.950	2.0	125637.980	3.0	169.4571	28.02	-0.30	97841.400	2.0	156853.400	3.0
169.1633	23.02	-1.49	99073.230	2.5	158187.700	2.5	169.4574	25.02	-0.36	173063.550	5.5	232075.440	6.5
169.1684	25.03	-1.11	131170.100	4.0	190282.800	3.0	169.4598	26.02	-3.83	142908.480	5.0	201919.530	4.0
169.1704	11.02	-2.80	406876.000	2.5	465988.000	2.5	169.4599	10.01	-2.62	246397.490	1.5	305408.510	2.5
169.1720	26.02	-3.91	140693.360	3.0	199804.810	4.0	169.4624	25.01	-3.35	14901.180	1.0	73911.310	1.0
169.1728	15.00	-2.50	18722.650	2.5	77833.800	1.5	169.4625	26.01	-3.11	56075.260	2.5	115085.360	3.5
169.1735	28.01	-3.95	57080.550	3.5	116191.470	2.5	169.4645	27.02	-2.87	72270.500	3.5	131279.900	3.5
169.1761	24.02	-3.66	57422.100	4.0	116532.100	3.0	169.4672	26.02	-2.76	140693.360	3.0	199701.820	3.0
169.1779	20.01	-2.15	25191.510	2.5	84300.890	2.5	169.4680	26.01	-3.23	3117.480	1.5	62125.660	1.5
169.1853	15.03	-0.56	257520.200	1.0	316627.000	0.0	169.4737	23.02	-1.37	99181.500	1.5	158187.700	2.5
169.1890	26.02	-2.46	89907.850	4.0	149013.360	4.0	169.4740	25.02	-2.11	113676.530	2.5	172682.440	3.5
169.1890	26.02	-1.56	89907.850	5.0	149013.360	4.0	169.4767	23.02	-0.60	87544.460	4.5	146549.620	4.5
169.1897	23.02	-0.08	86716.840	1.5	145822.110	1.5	169.4783	25.01	-2.74	30795.750	4.0	89800.340	4.0
169.1937	18.01	-2.27	150147.620	2.5	209251.460	3.5	169.4786	10.01	-2.31	246394.130	2.5	305398.620	1.5
169.1975	23.02	-1.20	78880.850	2.5	146983.380	2.5	169.4797	23.02	-0.43	87218.920	3.5	146223.050	3.5
169.1992	26.02	-3.45	90423.680	2.0	149525.630	2.0	169.4799	25.01	-3.75	14781.190	2.0	73785.250	2.0
169.2021	18.01	-1.35	150147.620	2.5	209248.550	2.5	169.4852	25.02	-3.64	89204.690	4.5	148206.900	5.5
169.2036	27.02	-2.42	73214.500	2.5	132314.900	2.5	169.4883	10.01	-3.22	246397.490	1.5	305398.620	1.5
169.2113	26.02	-3.19	77102.430	2.0	136200.130	3.0	169.4926	25.01	-2.79	14781.190	2.0	73780.810	3.0
169.2116	23.01	-1.10	8640.210	2.0	67737.800	2.0	169.5032	26.02	-1.69	30088.840	3.0	89084.790	3.0
169.2153	22.01	-4.62	225.470	3.5	59321.790	2.5	169.5036	26.01	-4.48	667.640	2.5	59663.450	1.5
169.2156	10.02	-4.37	353197.400	1.0	412293.590	0.0	169.5075	28.01	-4.18	71770.830	2.5	130765.260	3.5
169.2168	18.01	-3.33	143371.350	1.5	202467.140	1.5	169.5096	25.02	-2.35	136421.500	5.5	195415.200	4.5
169.2219	28.02	-0.55	75123.800	5.0	134217.800	5.0	169.5127	10.01	-4.32	249108.640	3.5	308101.270	2.5
169.2354	25.01	-2.52	14593.820	3.0	73683.110	4.0	169.5171	27.02	-3.72	73286.000	4.5	132277.100	3.5
169.2428	25.01	-4.33	54938.100	1.0	114024.800	2.0	169.5226	26.02	-2.18	87901.870	3.0	146891.040	3.0
169.2453	15.00	-1.15	18747.950	1.5	77833.800	1.5	169.5235	27.01	-2.61	10708.100	3.0	69696.970	3.0
169.2465	25.01	-4.63	54938.100	1.0	114023.500	1.0	169.5244	28.01	-6.95	29593.460	2.5	88582.010	1.5
169.2499	26.01	-2.43	1872.600	4.5	60956.820	3.5	169.5257	26.02	-3.72	82410.940	2.0	141399.040	2.0
169.2514	28.02	-0.64	53703.700	5.0	112787.400	6.0	169.5302	15.00	-2.56	18747.950	1.5	77734.500	2.5
169.2517	27.02	-2.25	73540.200	3.5	132623.800	3.5	169.5322	26.02	-0.93	120697.100	1.0	179682.940	1.0
169.2546	26.01	-2.19	2430.080	3.5	61512.670	4.5	169.5328	26.02	-3.96	122843.030	1.0	181828.660	2.0
169.2551	30.02	-1.08	234576.000	4.0	293658.400	3.0	169.5339	26.02	-3.18	141399.040	2.0	200384.280	3.0
169.2569	23.02	-2.24	99073.230	2.5	158155.000	1.5	169.5375	27.02	-2.52	82363.300	4.5	141347.300	4.5
169.2587	26.02	-3.80	66591.680	1.0	125672.830	2.0	169.5376	26.02	-3.52	142908.480	5.0	201892.440	5.0
169.2589	25.01	-2.58	30679.240	5.0	89760.330	5.0	169.5404	30.02	-1.66	83500.300	2.0	142483.300	2.0
169.2601	26.02	-2.22	69836.830	3.0	128917.510	2.0	169.5496	26.02	-1.26	120697.100	1.0	179676.890	2.0
169.2627	26.02	-4.79	69837.760	2.									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
169.6313	25.03	-4.27	190032.400	4.0	248983.800	5.0	169.9117	29.01	-1.52	69704.800	4.0	128558.900	3.0
169.6329	26.02	-2.82	140750.980	2.0	199701.820	3.0	169.9135	8.01	-4.25	207002.520	3.5	265856.000	2.5
169.6387	27.02	-3.02	73540.200	3.5	132489.000	2.5	169.9149	25.03	.08	112013.300	3.0	170866.300	2.0
169.6394	27.01	-7.55	4560.800	3.0	63509.370	4.0	169.9160	26.02	-3.10	63494.000	3.0	122346.610	3.0
169.6401	18.02	-2.09	225147.930	2.0	284096.260	2.0	169.9176	26.02	-4.93	63494.560	2.0	122346.610	3.0
169.6456	26.01	-1.28	13673.210	1.5	72619.610	2.5	169.9195	26.01	-1.12	13673.210	1.5	72524.620	1.5
169.6468	24.04	-1.87	167184.000	1.0	226130.000	2.0	169.9200	23.02	-4.09	44110.040	2.5	102961.280	3.5
169.6471	29.02	-3.57	136607.300	2.5	195553.200	2.5	169.9215	26.02	-1.88	120826.170	2.0	179676.890	2.0
169.6515	25.01	-1.64	9472.970	2.0	68417.340	2.0	169.9236	28.01	-3.35	10115.660	2.5	68965.650	1.5
169.6566	23.02	-4.51	102075.000	2.5	161017.600	3.5	169.9331	26.02	-3.40	138054.590	5.0	196901.270	5.0
169.6610	18.02	-2.17	225155.180	1.0	284096.260	2.0	169.9339	28.02	-3.29	154170.600	3.0	213017.000	2.0
169.6620	8.01	-4.28	189068.370	1.5	248009.100	1.5	169.9357	28.02	-1.73	71067.000	3.0	129912.800	2.0
169.6644	24.02	.82	94374.700	4.0	153314.600	5.0	169.9362	24.02	-2.04	114354.900	4.0	173200.500	5.0
169.6717	25.02	-1.60	113676.530	2.5	172613.870	2.5	169.9401	28.01	-3.50	70635.460	2.5	129479.730	1.5
169.6794	26.01	-1.07	1872.600	4.5	60807.280	4.5	169.9484	23.02	-1.32	88327.960	3.5	147169.340	3.5
169.6798	26.02	-1.40	120826.170	2.0	179760.720	3.0	169.9530	25.02	-1.67	172547.850	2.5	231387.660	3.5
169.6829	26.02	-1.67	123552.950	1.0	182486.400	1.0	169.9536	26.02	-1.90	123552.950	1.0	182392.550	2.0
169.6880	26.01	-7.46	3117.480	1.5	62049.170	2.5	169.9559	28.01	-4.01	70635.460	2.5	129474.270	3.5
169.6924	23.02	-2.24	86716.840	1.5	145647.000	1.5	169.9585	29.02	-1.74	80422.800	.5	139260.700	.5
169.6929	15.02	-1.56	141512.800	1.5	200442.800	2.5	169.9610	23.02	-2.67	86306.400	4.5	145143.430	4.5
169.6929	15.02	-1.51	141512.800	1.5	200442.800	1.5	169.9643	25.01	-2.33	31760.930	2.0	90596.800	2.0
169.6980	27.02	-1.77	71873.700	5.5	130801.900	4.5	169.9660	26.02	-1.13	120826.170	2.0	179661.480	3.0
169.6986	24.03	-2.18	175166.000	3.5	234094.000	4.5	169.9678	25.01	-2.97	33248.320	4.0	92083.000	3.0
169.6993	26.02	-1.48	123552.950	1.0	182486.720	2.0	169.9716	14.00	-2.54	223.157	2.0	59056.508	1.0
169.7010	26.01	-3.73	27620.390	2.5	86547.550	2.5	169.9744	24.02	-4.44	49626.800	2.0	108459.200	2.0
169.7047	26.01	-4.53	33501.320	3.5	92427.220	4.5	169.9755	23.02	-2.19	97512.000	1.5	156344.000	1.5
169.7109	26.01	-4.81	27620.390	2.5	86544.140	1.5	169.9772	26.02	-2.93	138054.590	5.0	196886.010	6.0
169.7174	25.01	-1.76	38806.530	4.0	97728.000	3.0	169.9848	26.01	-4.59	33501.320	3.5	92330.100	2.5
169.7174	56.01	-3.81	5674.824	0.0	64596.302	0.0	169.9879	27.02	-4.10	72270.500	3.5	131098.200	4.5
169.7191	23.02	-1.58	87218.920	3.5	146139.800	2.5	169.9894	27.02	-1.70	82363.300	4.5	141190.500	5.5
169.7202	28.01	-3.68	71770.830	2.5	130691.350	1.5	169.9900	11.02	-3.73	406200.900	2.5	465027.900	1.5
169.7206	25.01	-1.10	29919.220	2.0	88839.600	1.0	170.0027	24.01	-2.74	32603.730	2.5	91426.310	2.5
169.7274	12.02	-1.58	474053.200	3.0	532971.200	3.0	170.0030	30.02	-1.82	235452.500	2.0	294275.000	3.0
169.7281	26.02	-2.87	141466.530	3.0	200384.280	3.0	170.0056	30.02	-1.20	237642.700	3.0	296464.300	2.0
169.7355	27.01	-3.62	4950.000	2.0	63865.200	1.0	170.0166	27.02	-3.57	77472.300	2.5	136290.100	3.5
169.7361	28.01	-3.95	54262.630	3.5	113177.610	3.5	170.0210	26.01	-4.16	33466.500	4.5	92282.760	3.5
169.7459	27.02	-4.15	111283.100	.5	170194.700	.5	170.0261	26.01	-5.38	20516.980	2.5	79331.490	3.5
169.7473	30.02	-1.98	237506.800	1.0	296417.900	1.0	170.0292	25.02	-1.45	172547.850	2.5	231361.280	2.5
169.7490	25.01	-4.10	55115.800	2.0	114026.300	3.0	170.0299	24.02	-1.03	43286.400	4.0	102099.600	4.0
169.7495	28.01	-4.95	54262.630	3.5	113172.960	4.5	170.0350	25.01	-1.41	9472.970	2.0	68284.380	3.0
169.7503	25.02	-3.14	172451.230	1.5	231361.280	2.5	170.0373	28.01	-4.18	72985.650	1.5	131796.260	2.5
169.7533	25.01	-4.48	55115.800	2.0	114024.800	2.0	170.0394	28.02	-1.73	79250.800	4.0	138060.700	5.0
169.7540	26.02	-2.09	83138.230	5.0	142047.000	4.0	170.0400	28.02	-4.79	63472.600	2.0	122282.300	2.0
169.7591	27.02	-1.79	77383.100	3.5	136290.100	3.5	170.0416	26.02	-4.87	83237.860	3.0	142047.000	4.0
169.7603	26.02	-4.66	147354.750	5.0	206261.330	4.0	170.0420	14.00	-1.32	223.157	2.0	59032.140	2.0
169.7611	26.02	-2.20	77102.430	2.0	136008.740	3.0	170.0426	27.02	-3.07	110961.500	1.5	169770.300	2.5
169.7623	16.00	-4.96	22177.820	0.0	81083.730	1.0	170.0469	23.01	-1.93	9097.810	4.0	67905.100	3.0
169.7673	26.02	-2.81	82494.880	1.0	141399.040	2.0	170.0504	27.01	-6.65	4560.800	3.0	63366.900	2.0
169.7694	26.01	-4.38	45079.910	2.5	103983.350	3.5	170.0544	25.02	-1.56	172682.640	3.5	231487.340	4.5
169.7729	24.02	-3.17	56650.500	2.0	115552.700	3.0	170.0547	25.01	-4.03	33278.390	3.0	92083.000	3.0
169.7744	30.02	-1.89	234866.900	1.0	293766.600	1.0	170.0601	23.02	-1.87	87544.460	4.5	146347.200	5.5
169.7822	24.03	-4.80	173674.000	1.5	232573.000	2.5	170.0618	25.01	-4.24	14593.820	3.0	73395.970	2.0
169.7848	24.02	-1.32	94029.200	3.0	152927.300	3.0	170.0622	24.03	-4.44	174103.000	2.5	232905.000	3.5
169.7858	25.02	-1.46	172855.020	4.5	231752.760	5.5	170.0628	26.02	-3.66	141002.990	4.0	199804.810	4.0
169.7874	27.02	-2.87	73726.600	2.5	132623.800	3.5	170.0636	14.00	-1.27	0.000	0.0	58801.524	1.0
169.7900	23.02	-3.80	85875.740	3.5	144772.020	3.5	170.0643	25.01	-3.19	14593.820	3.0	73395.120	3.0
169.7913	23.01	-2.01	8841.970	3.0	67737.800	2.0	170.0646	28.01	-3.01	9330.040	3.5	68131.210	3.5
169.7941	14.00	-1.43	223.157	2.0	59118.030	3.0	170.0657	26.01	-4.69	862.630	1.5	59663.450	1.5
169.7986	27.02	-1.24	47698.600	1.5	106591.900	1.5	170.0665	28.01	-1.02	51045.460	4.5	109846.000	3.5
169.8002	25.02	-3.65	113676.530	2.5	172569.270	1.5	170.0691	28.01	-4.78	56075.260	2.5	114874.880	2.5
169.8018	28.01	-2.71	57420.160	2.5	116312.340	1.5	170.0692	23.02	-1.73	99440.100	2.5	158239.700	2.5
169.8125	25.01	-1.55	29951.120	1.0	88839.600	1.0	170.0708	23.02	-1.48	88327.960	3.5	147127.000	2.5
169.8135	26.01	-2.38	2837.940	2.5	61726.090	3.5	170.0734	26.02	-2.87	138103.120	4.0	196901.270	5.0
169.8136	26.02	-4.32	83646.980	1.0	142535.070	2.0	170.0736	23.01	-1.36	20242.320	4.0	79040.400	3.0
169.8138	10.01	-3.58	254292.190	.5	313180.230	1.5	170.0883	24.03	-2.26	174854.000	3.5	233647.000	3.5
169.8171	28.02	-1.00	71067.000	3.0	129953.900	3.0	170.0911	25.02	-1.78	172569.270	1.5	231361.280	2.5
169.8182	20.01	-1.85	25414.400	1.5	84300.890	.5	170.0977	28.01	-2.58	57080.550	3.5	115870.280	2.5
169.8210	26.02	-2.38	83161.480	4.0	142047.000	4.0	170.0992	26.02	-2.36	123697.180	2.0	182486.400	1.0
169.8222	27.02	-1.98	76518.900	5.5	135404.000	4.5	170.1022	29.02	.38	89017.700	4.5	147805.900	3.5
169.8237	27.02	-1.42	78927.800	3.5	137812.400	3.5	170.1084	25.01	-1.93	30679.240	5.0	89465.300	4.0
169.8251	23.02	-1.69	86938.010	2.5	145822.110	1.5	170.1085	24.03	-2.58	174103.000	2.5	232889.000	3.5
169.8252	25.01	-3.41	14901.180	1.0	73785.250	2.0	170.1091	28.02	-1.34	76237.800	3.0	135023.600	3.0
169.8305	18.01	-5.00	143371.350	1.5	202253.590	1.5	170.1156	26.02	-2.21	123697.180	2.0	182486.400	2.0
169.8306	25.03	.45	112882.800	5.0	171765.000	4.0	170.1163	27.01	-3.42	4560.800	3.0	63344.100	3.0
169.8314	26.01	-3.77	8391.920	2.5	67273.860	1.5	170.1172	24.02	-3.00	99840.700	3.0	158623.700	4.0
169.8326	26.02	-3.53	122944.150	4.0	181825.670	4.0	170.1217	26.01	-4.67	39501.320	3.5	92282.760	3.5
169.8329	26.02	-1.70	141002.990	4.0	199884.390	5.0	170.1242	28.02	-2.78	73250.800	4.0	138031.400	4.0
169.8335	28.02	-1.24	78482.900	1.0</									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
170.2071	26.02	-2.69	121008.780	3.0	179760.720	3.0	170.4462	25.01	-4.81	30795.750	4.0	89465.300	4.0
170.2099	10.03	-3.83	642472.000	2.5	701223.000	1.5	170.4478	24.03	-1.29	174978.000	2.5	233647.000	3.5
170.2102	29.02	-1.19	63886.300	1.5	122637.400	1.5	170.4498	26.02	-1.49	123750.390	3.0	182418.700	4.0
170.2107	26.02	-3.14	121008.780	3.0	179759.490	2.0	170.4504	26.02	-1.26	121008.780	3.0	179676.890	2.0
170.2142	23.01	-4.63	13542.680	3.0	72292.200	4.0	170.4530	27.02	-1.02	77622.900	4.5	136290.100	3.5
170.2151	26.02	-1.33	121008.780	3.0	179757.980	4.0	170.4536	24.03	-2.16	174854.000	3.5	233521.000	4.5
170.2159	26.02	-3.59	84159.550	4.0	142908.480	5.0	170.4553	28.02	-2.57	154170.600	3.0	212837.000	4.0
170.2163	26.02	-1.73	76956.790	3.0	135705.570	3.0	170.4565	27.01	-3.11	4950.000	2.0	63616.000	2.0
170.2187	18.01	-0.95	147875.860	2.5	206623.800	3.5	170.4642	26.01	-1.53	2430.080	3.5	61093.440	2.5
170.2191	29.02	-0.25	85446.400	1.5	144194.200	2.5	170.4668	28.01	-4.81	70635.460	2.5	129297.910	3.5
170.2197	28.01	-4.61	57420.160	2.5	116167.760	1.5	170.4673	26.02	-1.33	123750.390	3.0	182412.650	4.0
170.2200	30.02	-1.01	238205.500	1.0	296953.000	2.0	170.4678	23.02	-0.78	88944.380	2.5	147606.500	3.5
170.2200	26.02	-1.19	123697.180	2.0	182444.700	3.0	170.4690	28.02	-0.09	78303.100	2.0	136964.800	3.0
170.2203	25.02	-4.84	172613.870	2.5	231361.280	2.5	170.4719	27.01	-3.72	5204.500	1.0	63865.200	1.0
170.2227	28.01	-3.78	57080.550	3.5	115827.120	3.5	170.4767	28.01	-3.97	70635.460	2.5	129294.510	2.5
170.2244	27.02	-4.44	77383.100	3.5	136129.100	2.5	170.4780	28.01	-3.33	57080.550	3.5	115739.150	4.5
170.2248	28.01	-2.33	53037.930	2.5	111783.790	3.5	170.4782	26.02	-2.25	123750.390	3.0	182408.910	3.0
170.2322	28.02	-4.57	82172.900	3.0	140916.200	2.0	170.4832	27.02	-1.77	77472.300	2.5	136129.100	2.5
170.2352	26.02	-4.43	88663.870	4.0	147406.140	5.0	170.4841	25.01	-3.91	55371.300	3.0	114027.800	4.0
170.2354	29.02	-1.87	86133.000	3.5	144875.200	1.5	170.4872	23.02	-1.74	88327.960	3.5	146983.380	2.5
170.2389	28.01	-3.54	75917.630	3.5	134658.600	4.5	170.4876	10.01	-4.47	249445.990	2.5	308101.270	2.5
170.2493	8.01	-4.79	206730.800	3.5	265468.200	1.5	170.4884	25.01	-4.46	55371.300	3.0	114026.300	3.0
170.2507	27.02	-0.95	73540.200	3.5	132277.100	3.5	170.4951	26.02	-0.75	121008.780	3.0	179661.480	3.0
170.2539	30.02	-1.02	235452.500	2.0	294188.300	2.0	170.4975	26.02	-3.29	121241.670	4.0	179893.560	5.0
170.2591	28.02	-0.02	98238.200	4.0	156972.200	3.0	170.5016	26.01	-4.40	33466.500	4.5	92116.580	4.5
170.2603	27.02	-1.60	78927.800	3.5	137661.400	4.5	170.5111	30.02	-1.26	238205.500	1.0	296852.700	1.0
170.2628	25.02	-3.37	62747.500	2.5	121480.240	3.5	170.5132	23.02	-2.30	99508.500	1.5	158155.000	1.5
170.2667	25.02	-3.63	172755.950	3.5	231487.340	4.5	170.5146	25.02	-1.41	114209.010	3.5	172855.020	4.5
170.2673	23.02	-2.83	99508.500	1.5	158239.700	2.5	170.5171	8.01	-3.36	206786.340	1.5	265431.500	2.5
170.2688	28.01	-3.22	54176.260	3.5	112906.930	1.5	170.5258	26.02	-2.08	123750.390	3.0	182392.550	2.0
170.2690	27.02	-1.21	73861.800	1.5	132592.400	1.5	170.5278	28.01	-3.36	70778.120	3.5	129419.580	4.5
170.2698	26.02	-4.62	123750.390	3.0	182480.720	2.0	170.5329	29.02	-0.20	77967.600	2.5	136607.300	2.5
170.2732	26.01	-5.65	20516.980	2.5	79246.130	1.5	170.5344	28.02	-0.22	82277.000	1.0	140916.200	2.0
170.2757	24.00	-9.69	0.000	3.0	58728.290	4.0	170.5367	24.02	-0.54	109943.900	5.0	168582.300	6.0
170.2791	27.02	-1.29	47864.800	3.5	106591.900	1.5	170.5408	27.01	-4.44	4950.000	2.0	63587.000	3.0
170.2800	26.01	-2.91	2430.080	3.5	61156.900	3.5	170.5414	26.02	-3.20	138264.470	6.0	196901.270	5.0
170.2802	26.01	-2.08	20516.980	2.5	79243.730	1.5	170.5429	28.01	-3.35	70635.460	2.5	129271.720	3.5
170.2837	28.01	-1.92	57420.160	2.5	116145.690	3.5	170.5464	18.01	-4.87	144709.910	5.0	203344.980	1.5
170.2849	28.01	-3.43	70778.120	3.5	129503.240	4.5	170.5465	26.02	-4.88	121241.670	4.0	179876.710	4.0
170.2868	28.01	-3.58	75917.630	3.5	134642.090	3.5	170.5492	25.02	-3.36	62456.990	3.5	121091.080	1.5
170.2869	14.00	-1.70	77.115	1.0	58801.524	1.0	170.5497	26.01	-3.69	7955.240	3.5	66589.170	4.5
170.2870	24.02	-1.18	94374.700	4.0	153099.100	4.0	170.5524	24.04	-0.76	167497.000	2.0	226130.000	2.0
170.2870	22.02	-2.67	76999.700	1.0	135724.100	2.0	170.5544	25.02	-1.21	172855.020	4.5	231487.340	4.5
170.2994	29.02	-0.06	63143.600	2.5	121863.700	1.5	170.5562	25.02	-4.32	172755.950	3.5	231387.660	3.5
170.3019	25.01	-5.08	27583.300	4.0	86302.450	3.0	170.5568	24.02	-4.06	49827.700	3.0	108459.200	3.0
170.3038	27.02	-4.42	72083.300	4.5	130801.900	4.5	170.5601	24.01	-3.05	32355.940	3.5	90986.310	3.5
170.3080	26.01	-2.76	7955.240	3.5	66672.390	3.5	170.5603	18.02	-2.89	209151.820	2.0	267782.100	3.0
170.3100	25.01	-4.63	36364.300	1.0	95080.760	1.0	170.5623	25.03	-1.02	119445.500	2.0	178075.100	3.0
170.3105	12.02	-1.28	477435.700	2.0	536152.000	1.0	170.5632	29.02	-0.61	89017.700	4.5	147647.000	5.5
170.3142	27.01	-3.90	4950.000	2.0	63665.000	1.0	170.5676	9.01	-2.39	236960.830	1.0	295588.610	1.0
170.3145	23.02	-0.97	99440.100	2.5	158155.000	1.5	170.5693	27.02	-2.24	73861.800	1.5	132489.000	2.5
170.3151	28.01	-4.47	76402.030	2.5	135116.720	2.5	170.5741	14.00	-3.70	6298.850	2.0	64924.400	3.0
170.3162	25.01	-5.66	27588.230	3.0	86302.450	3.0	170.5818	24.02	-3.11	99840.700	3.0	158463.600	3.0
170.3173	28.01	-3.19	56371.410	3.5	115085.360	3.5	170.5845	26.02	-1.18	121008.780	3.0	179630.770	4.0
170.3185	25.01	-6.33	27589.030	2.0	86302.450	3.0	170.5858	26.02	-2.24	138264.470	6.0	196886.010	6.0
170.3203	27.02	-4.03	111283.100	3.5	169996.000	1.5	170.5859	24.02	-4.54	49626.800	2.0	108248.300	1.0
170.3237	26.02	-1.43	123697.180	2.0	182408.910	3.0	170.5877	25.02	-4.10	86051.500	2.5	144672.380	2.5
170.3240	24.01	-2.61	32844.920	1.5	91556.440	1.5	170.5893	28.01	-3.76	10115.660	2.5	68735.980	2.5
170.3245	26.02	-2.16	88694.670	5.0	147406.140	5.0	170.5899	26.02	-1.74	82382.870	3.0	141002.990	4.0
170.3289	28.01	-2.58	56371.410	3.5	115081.360	4.5	170.5910	26.01	-2.74	13904.870	5.0	72524.620	1.5
170.3317	23.02	-0.89	86938.010	2.5	145647.000	1.5	170.5921	25.01	-5.10	27589.030	2.0	86208.400	1.5
170.3395	28.02	-1.87	78657.800	0.0	137364.100	1.0	170.5952	26.02	-9.69	30716.200	2.0	89334.510	2.0
170.3401	9.02	-3.96	357479.350	1.5	416185.420	2.5	170.5961	25.03	-1.05	119961.500	3.0	178579.500	4.0
170.3405	28.01	-1.32	0.000	2.5	58705.950	1.5	170.5980	18.01	-1.14	147503.020	1.5	206120.350	2.5
170.3419	26.01	-3.79	33466.500	4.5	92171.950	4.5	170.5990	26.02	-2.00	138264.470	6.0	196881.470	7.0
170.3432	25.02	-1.26	172682.640	3.5	231387.660	3.5	170.5996	30.02	-1.82	238336.200	2.0	296953.000	2.0
170.3447	12.03	-0.32	545962.100	5.0	604666.600	1.5	170.6021	28.01	-2.71	54557.050	4.5	113172.560	4.5
170.3454	24.01	-7.19	12148.000	2.5	70852.240	3.5	170.6035	23.02	-5.95	44345.820	3.5	102961.280	3.5
170.3459	24.02	-3.65	50089.200	4.0	108793.300	3.0	170.6042	28.02	-0.03	98238.200	4.0	156853.400	3.0
170.3467	28.02	-1.16	55406.100	3.0	114109.900	3.0	170.6054	25.01	-3.48	14781.190	2.0	73395.970	2.0
170.3535	24.01	-1.66	32855.090	2.5	91556.440	1.5	170.6057	25.02	-2.44	136421.500	5.5	195036.200	6.5
170.3567	25.01	-4.16	44899.820	3.0	103600.170	2.0	170.6057	25.02	-1.10	136421.500	5.5	195036.200	6.5
170.3575	8.01	-2.85	206877.900	2.5	265578.000	3.5	170.6079	25.01	-3.34	14781.190	2.0	73395.120	3.0
170.3600	25.02	-3.22	62568.080	1.5	121267.320	2.5	170.6113	26.02	-2.87	126390.570	1.0	185003.350	2.0
170.3611	26.02	-2.38	141002.990	4.0	199701.820	3.0	170.6144	26.01	-2.14	2430.080	3.5	61041.780	2.5
170.3653	23.01	-6.29	20343.000	2.0	79040.400	3.0	170.6223	23.02	-0.39	98062.220	1.5	156671.200	2.5
170.3689	28.01	-4.60	70778.120	3.5	129474.270	3.5	170.6231	26.01	-2.91	8391.920	2.5	67000.630	2.5
170.3692	26.02												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
170.7024	28.01	-2.20	58493.210	2.5	117074.700	3.5	170.9554	25.01	-3.06	14901.180	1.0	73395.970	2.0
170.7027	24.01	-3.11	32844.920	1.5	91426.310	2.5	170.9589	28.01	-4.36	70778.120	3.5	129271.720	3.5
170.7029	12.03	-1.83	553659.000	1.5	612240.300	1.5	170.9600	28.01	-5.55	0.000	2.5	58493.210	2.5
170.7031	24.01	-4.87	19528.380	5	78109.640	1.5	170.9636	15.00	-2.19	11360.800	1.5	69852.800	1.5
170.7061	12.00	-2.44	0.000	0.0	58580.230	1.0	170.9647	26.02	-2.71	90423.680	2.0	148915.300	1.0
170.7108	23.02	-7.76	27727.800	3.5	86306.400	4.5	170.9655	25.02	-3.00	62988.920	3.5	121480.240	3.5
170.7115	14.00	-5.51	223.157	2.0	58801.524	1.0	170.9663	7.01	-2.10	164610.760	1.0	223101.820	1.0
170.7126	24.02	-3.42	56992.200	3.0	115570.200	4.0	170.9682	24.02	-3.05	70291.800	2.0	128782.200	3.0
170.7164	25.02	-1.51	90936.220	1.5	149512.900	1.5	170.9683	26.01	-5.50	13474.430	2.5	71964.810	2.5
170.7171	28.01	-4.46	76402.030	2.5	134978.470	2.5	170.9764	24.02	-7.73	99840.700	3.0	158328.300	2.0
170.7199	8.01	-4.46	207002.520	3.5	265578.000	3.5	170.9790	25.02	-2.11	136421.500	5.5	194908.200	5.5
170.7245	28.02	-4.43	71383.700	2.0	129957.600	1.0	170.9811	26.03	-4.07	173698.900	5	196184.900	1.5
170.7249	23.02	-1.10	94714.250	5	153288.000	1.5	170.9811	11.05	0.08	996011.000	2.0	1054497.000	3.0
170.7292	26.01	-2.89	25787.600	1.5	84359.900	1.5	170.9869	22.01	-6.25	983.800	2.5	59467.810	3.5
170.7312	26.02	-3.18	143320.850	6.0	201892.440	5.0	170.9870	25.01	-6.18	14901.180	1.0	73385.150	1.0
170.7321	30.02	-2.39	194303.300	2.0	252874.600	3.0	170.9892	26.02	-2.53	63466.390	5.0	121949.620	5.0
170.7323	24.01	-2.27	32855.090	2.5	91426.310	2.5	170.9897	26.02	0.07	88923.070	6.0	147406.140	5.0
170.7332	28.02	-2.23	75646.900	4.0	134217.800	5.0	170.9902	28.02	0.53	54657.900	4.0	113140.800	5.0
170.7347	27.02	0.24	46438.300	4.5	105008.700	3.5	170.9957	24.03	-4.98	175166.000	3.5	233647.000	3.5
170.7353	28.02	0.04	71383.700	2.0	129953.900	3.0	171.0018	25.02	-1.86	136421.500	5.5	194900.400	5.5
170.7362	25.03	0.12	131462.500	5.0	190032.400	4.0	171.0032	25.01	-6.29	27583.300	4.0	86061.750	3.0
170.7394	26.01	-0.92	13474.430	2.5	72043.210	1.5	171.0034	24.01	-4.91	19631.280	1.5	78109.640	1.5
170.7411	28.02	0.43	75123.800	5.0	133692.000	5.0	171.0055	20.02	-2.56	324110.240	4.0	382587.900	4.0
170.7419	23.02	-0.63	88559.080	1.5	147127.000	2.5	171.0073	12.00	-7.06	0.000	0.0	58477.020	1.0
170.7423	25.03	0.62	137930.100	5.0	196497.900	6.0	171.0083	26.02	-7.30	30857.800	3.0	89334.510	2.0
170.7426	25.02	-3.25	86051.500	2.5	144619.190	1.5	171.0135	26.02	-1.79	63466.390	5.0	121941.290	4.0
170.7429	24.02	1.00	95304.100	6.0	153871.700	7.0	171.0138	23.01	-5.07	17910.980	4.0	76385.800	3.0
170.7443	27.02	-2.28	72341.900	1.5	130909.000	1.5	171.0153	25.02	-2.26	114094.970	1.5	172569.270	1.5
170.7444	26.01	-3.27	7955.240	3.5	66522.320	2.5	171.0173	25.02	-1.90	114209.010	3.5	172682.640	3.5
170.7448	28.01	-4.34	72375.420	1.5	130942.360	1.5	171.0176	25.01	-6.82	27588.230	3.0	86061.750	3.0
170.7492	26.01	-2.38	13673.210	1.5	72238.630	2.5	171.0199	25.01	-6.09	27589.030	2.0	86061.750	3.0
170.7496	29.02	-0.95	80422.800	5	138988.100	1.5	171.0217	23.02	-4.78	28746.800	2.5	87218.920	3.5
170.7522	30.02	-4.84	235623.900	3.0	294188.300	2.0	171.0336	25.02	-1.30	114287.910	2.5	172755.950	3.5
170.7537	15.00	-3.21	11360.800	1.5	69924.700	2.5	171.0337	24.03	-2.28	174978.000	2.5	233446.000	2.5
170.7581	25.02	-1.34	114501.180	4.5	173063.550	5.5	171.0376	26.02	-0.06	88694.670	5.0	147161.360	4.0
170.7621	26.04	-3.82	196845.000	4.0	255406.000	3.0	171.0399	11.02	-3.94	406562.000	1.5	465027.900	1.5
170.7629	25.01	-4.99	86303.060	5.0	106893.800	5.0	171.0407	23.02	-2.92	86306.400	4.5	144772.020	3.5
170.7636	24.02	-1.79	56992.200	3.0	115552.700	3.0	171.0412	28.01	-4.73	71770.830	2.5	130236.260	2.5
170.7668	26.01	-1.07	2430.080	3.5	60989.480	4.5	171.0414	24.01	-5.92	21822.860	2.5	80288.250	1.5
170.7725	22.02	-1.37	77166.650	2.0	135724.100	2.0	171.0419	28.01	-4.72	56371.410	3.5	114836.630	3.5
170.7837	27.01	-6.28	24074.600	2.0	82628.200	3.0	171.0420	18.01	-2.58	145668.800	1.5	204133.980	2.5
170.7837	8.01	-3.66	206877.900	2.5	265431.500	2.5	171.0450	26.02	-2.99	141539.550	6.0	200003.700	7.0
170.7861	26.02	-2.97	124903.920	2.0	183456.690	3.0	171.0454	24.01	-5.39	21824.250	5	80288.250	1.5
170.7866	24.02	-1.81	94374.700	4.0	152927.300	3.0	171.0471	24.01	-5.40	21824.820	1.5	80288.250	1.5
170.7884	24.03	-3.10	175166.000	3.5	233718.000	4.5	171.0488	26.02	-2.41	63486.780	4.0	121949.620	5.0
170.7886	24.01	-7.51	12032.720	1.5	70584.640	2.5	171.0510	24.02	-4.25	70291.800	2.0	128753.900	2.0
170.7900	23.02	-0.55	94714.250	5	153265.700	5	171.0536	15.04	-1.26	376639.200	5	435100.400	1.5
170.7925	23.01	-3.67	13741.610	3.0	72292.200	4.0	171.0557	27.01	-4.26	5204.500	1.0	63665.000	1.0
170.7927	27.02	-2.60	73726.600	2.5	132277.100	3.5	171.0574	25.02	-6.60	113991.310	5	172451.230	1.5
170.7951	27.02	-0.12	47415.400	2.5	105965.100	2.5	171.0604	24.02	-2.27	43286.400	4.0	101745.300	3.0
170.7968	27.01	-4.29	27585.300	1.0	86134.400	1.0	171.0635	25.01	-3.85	48435.960	6.0	106893.800	5.0
170.7992	15.00	-5.24	11376.400	2.5	69924.700	2.5	171.0642	27.02	-3.30	72341.900	1.5	130799.500	5
170.7993	24.01	-7.13	12303.980	3.5	70852.240	3.5	171.0662	25.01	-2.75	43131.400	2.0	101588.300	3.0
170.8031	25.02	-0.31	114209.010	3.5	172755.950	3.5	171.0671	19.02	-2.24	243947.400	1.5	302404.000	2.5
170.8067	28.01	-3.13	56424.490	1.5	114970.190	5	171.0722	20.02	-4.98	324110.240	4.0	382587.900	2.5
170.8114	22.02	-0.74	76999.700	1.0	135543.800	0.0	171.0730	26.01	-4.14	20830.520	2.5	79285.100	2.5
170.8237	26.01	-1.08	13673.210	1.5	72213.100	5	171.0732	26.02	-2.52	63486.780	4.0	121941.290	4.0
170.8251	30.02	-1.11	238336.200	2.0	296875.600	2.0	171.0773	27.02	-3.03	73861.800	1.5	132314.900	5
170.8258	25.01	-0.13	30523.450	6.0	89062.600	5.0	171.0780	25.02	-2.39	114094.970	1.5	172547.850	2.5
170.8267	18.01	-3.77	132630.650	1.5	191169.520	1.5	171.0860	28.01	-3.61	57420.160	2.5	115870.280	2.5
170.8296	25.02	-3.03	84610.530	5	143148.400	1.5	171.0896	28.02	0.36	103306.100	3.0	161755.000	3.0
170.8334	28.01	-2.86	57420.160	2.5	115956.710	2.5	171.0908	18.01	-1.49	150474.900	1.5	208923.410	2.5
170.8363	25.02	-1.96	136500.630	6.5	195036.200	6.5	171.0943	26.02	-1.95	63494.000	3.0	121941.290	4.0
170.8363	25.02	-1.56	136500.630	6.5	195036.200	6.5	171.0972	25.02	-2.94	173306.450	6.5	231752.760	5.5
170.8415	15.00	-2.29	11360.800	1.5	69894.600	1.5	171.0972	18.01	-5.59	150474.900	1.5	208921.200	1.5
170.8421	27.01	-4.82	22009.230	4.0	80542.800	3.0	171.1013	18.01	-3.91	145668.800	1.5	204113.710	1.5
170.8448	25.02	-2.53	172855.020	4.5	231387.660	3.5	171.1035	18.01	-4.53	150147.620	2.5	208591.780	1.5
170.8485	27.02	-3.51	72270.500	3.5	130801.900	4.5	171.1083	26.01	-3.28	25428.800	5.5	83871.310	4.5
170.8488	24.02	-2.00	56650.500	2.0	115181.800	2.0	171.1122	24.02	-2.16	43304.100	2.0	101745.300	3.0
170.8490	18.01	-3.96	132481.140	2.5	191012.350	1.5	171.1178	26.02	-2.58	66464.640	3.0	124903.920	2.0
170.8516	28.01	-3.24	71457.740	3.5	129988.050	2.5	171.1180	8.02	-3.37	300228.210	0.0	358667.400	1.0
170.8532	26.02	-2.55	90483.590	3.0	149013.360	4.0	171.1255	24.01	-7.34	12148.000	2.5	70584.640	2.5
170.8552	28.02	-0.02	71383.700	2.0	129912.800	2.0	171.1256	29.02	-4.33	80551.500	2.5	138988.100	1.5
170.8590	28.02	-1.92	97996.300	3.0	156524.100	2.0	171.1281	26.02	-4.16	121468.820	5.0	179904.560	6.0
170.8621	26.01	-1.04	2430.080	3.5	60956.820	3.5	171.1281	22.02	-5.52	77166.650	2.0	135602.400	1.0
170.8642	11.05	0.24	996734.000	3.0	1055260.000	4.0	171.1299	23.02	-3.17	99804.570	2.5	158239.700	2.5
170.8645	9.02	-3.99	356371.820	2.5	414897.720	3.5	171.1334	8.01	-4.33	206786.340	1.5	265220.300	1.5
170.8665	28.01	-2.89	72375.420	1.5	130900								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
171.2000	30.02	-1.29	235623.900	3.0	294035.100	2.0	171.4704	28.02	.31	85834.800	5.0	144153.900	4.0
171.2024	30.02	-3.27	235623.900	3.0	294034.300	4.0	171.4708	26.01	-1.59	2837.940	2.5	61156.900	3.5
171.2027	29.02	-1.77	138988.100	1.5	197398.400	2.5	171.4740	14.00	-3.16	6298.850	2.0	64616.740	2.0
171.2047	10.01	-3.71	280268.960	2.5	338678.570	3.5	171.4745	27.02	-2.51	110371.200	2.5	168688.900	2.5
171.2107	25.02	-2.36	136500.630	6.5	194908.200	9.5	171.4758	26.02	-3.15	147354.750	5.0	205672.010	4.0
171.2125	28.01	-2.46	57420.160	2.5	115827.120	3.5	171.4758	9.01	-3.29	236960.830	1.0	295278.080	1.0
171.2148	25.02	-3.83	62568.080	1.5	120974.250	.5	171.4789	12.02	-1.04	474655.000	2.0	532971.200	3.0
171.2151	10.01	-4.74	249695.530	1.5	308101.610	1.5	171.4792	30.02	-3.97	235452.500	2.0	293768.600	1.0
171.2186	25.02	-.58	114209.010	3.5	172613.870	2.5	171.4817	9.01	-2.70	236960.830	1.0	295276.080	2.0
171.2210	26.02	-2.70	79860.420	5.0	138264.470	6.0	171.4845	23.02	-5.92	44646.960	4.5	102961.280	3.5
171.2303	25.01	-5.80	27588.230	3.0	85989.120	2.0	171.4906	26.02	-2.48	66591.680	1.0	124903.920	2.0
171.2326	25.01	-4.81	27589.030	2.0	85989.120	2.0	171.4913	18.01	-3.78	132630.650	1.5	190942.650	.5
171.2483	25.02	-2.04	114287.910	2.5	172682.640	3.5	171.4924	24.01	-7.16	19798.010	2.5	78109.640	1.5
171.2502	27.01	-4.42	4950.000	2.0	63344.100	3.0	171.5024	26.01	-1.33	13904.870	.5	72213.100	.5
171.2566	29.02	-3.69	138982.000	3.5	197373.900	3.5	171.5060	24.03	-3.44	104003.000	1.5	162310.000	2.5
171.2607	27.01	-1.89	9812.700	4.0	68203.200	5.0	171.5099	25.02	-1.97	86654.070	4.5	144959.740	4.5
171.2622	28.01	-3.75	55018.710	2.5	113408.710	1.5	171.5117	26.02	-1.68	83161.480	4.0	141466.530	3.0
171.2640	26.02	-1.31	64664.640	3.0	124854.040	3.0	171.5133	26.01	-3.83	26055.400	2.5	84359.900	1.5
171.2648	26.02	-.59	121241.670	4.0	179630.770	4.0	171.5149	24.01	-4.73	19631.280	1.5	77935.240	2.5
171.2663	28.01	-4.39	55018.710	2.5	113407.310	2.5	171.5184	26.02	-2.98	141399.040	2.0	199701.820	3.0
171.2690	23.02	-5.04	44646.960	4.5	103034.650	4.5	171.5189	22.02	-1.65	77421.480	2.0	135724.100	2.0
171.2707	27.02	-1.84	79425.300	2.5	137812.400	3.5	171.5214	28.01	-4.15	10663.890	1.5	68965.650	1.5
171.2710	24.03	-4.31	174978.000	2.5	233365.000	3.5	171.5242	25.01	-2.01	30795.750	4.0	89096.560	4.0
171.2766	26.03	.14	137947.500	1.5	196332.600	2.5	171.5269	22.02	-.37	77424.200	3.0	135724.100	2.0
171.2777	30.02	-3.60	238336.200	2.0	296720.900	3.0	171.5281	24.02	-1.77	94799.600	5.0	153099.100	4.0
171.2804	25.03	-.24	131170.100	4.0	189553.900	5.0	171.5298	28.02	.45	55406.100	3.0	113705.000	4.0
171.2817	25.01	-1.78	30679.240	5.0	89062.600	5.0	171.5310	23.02	-.80	99941.200	3.5	158239.700	2.5
171.2823	24.01	-5.15	12496.790	4.5	70879.950	5.5	171.5319	25.02	-1.89	90936.220	1.5	149234.400	2.5
171.2840	24.01	-3.25	32603.730	2.5	90986.310	3.5	171.5331	18.01	-2.46	144709.910	.5	203007.690	1.5
171.2851	25.03	-3.61	190282.800	3.0	248665.000	4.0	171.5351	25.02	-.54	174664.070	4.5	232761.160	5.5
171.2866	18.01	-3.51	132630.650	1.5	191012.350	1.5	171.5362	25.02	-3.06	86520.940	2.5	144817.680	3.5
171.2871	25.02	-2.89	86578.240	3.5	144959.740	4.5	171.5395	27.02	-3.20	73286.000	4.5	131581.600	3.5
171.2871	28.02	-.78	83033.800	2.0	141415.300	1.0	171.5456	25.01	-6.07	9472.970	2.0	67766.510	2.0
171.2887	26.02	-4.38	66522.950	2.0	124903.920	2.0	171.5483	24.00	-6.31	0.000	3.0	58292.620	4.0
171.2898	22.01	-6.64	1087.210	3.5	59467.810	3.5	171.5513	26.01	-.78	13673.210	1.5	71964.810	2.5
171.2934	18.01	-2.05	147875.860	2.5	206255.230	2.5	171.5561	27.01	-5.52	22009.230	4.0	80299.200	4.0
171.2974	25.04	-1.25	183528.000	2.5	241906.000	2.5	171.5572	23.02	-1.86	97512.000	1.5	155801.600	1.5
171.2995	26.02	-2.67	73727.640	2.0	132104.940	2.0	171.5585	26.02	-2.64	121468.820	5.0	179757.980	4.0
171.2998	26.01	-.57	2430.080	3.5	60807.280	4.5	171.5599	25.01	-2.12	31661.720	3.0	89950.400	3.0
171.3048	27.01	-1.82	11321.500	2.0	69696.970	3.0	171.5625	26.02	-7.23	24558.800	5.0	82846.590	4.0
171.3055	24.01	-5.78	12303.980	3.5	70679.220	4.5	171.5629	23.02	-.94	98383.530	2.5	156671.200	2.5
171.3068	25.03	-1.68	138123.100	6.0	196497.900	6.0	171.5637	17.02	-4.61	146749.900	2.5	205037.300	1.5
171.3084	25.01	-4.55	48333.060	5.0	106707.300	4.0	171.5641	23.02	-1.20	88559.080	1.5	146846.320	1.5
171.3086	27.01	-5.64	22414.500	3.0	80788.700	2.0	171.5678	25.01	-1.03	31514.350	4.0	98800.340	4.0
171.3156	28.02	-2.92	82172.900	3.0	140544.700	3.0	171.5727	24.01	-7.62	12032.720	1.5	70317.040	2.5
171.3209	26.01	-1.77	13673.210	1.5	72043.210	1.5	171.5768	26.02	-4.30	76956.790	3.0	135239.740	4.0
171.3217	18.01	-.72	147875.860	2.5	206255.230	3.5	171.5769	27.02	-1.89	77121.100	4.5	135404.000	4.5
171.3229	25.01	-6.14	27583.300	4.0	85952.600	3.0	171.5783	26.02	-1.76	82410.940	2.0	140693.360	3.0
171.3264	26.02	-3.25	82382.870	3.0	140750.980	2.0	171.5793	27.02	-.92	82363.300	4.5	140645.400	3.5
171.3285	28.01	-.88	52205.950	3.5	110573.360	2.5	171.5802	23.02	-2.06	98062.220	1.5	156344.000	1.5
171.3325	26.02	-4.31	147305.970	3.0	205672.010	4.0	171.5814	25.02	-3.71	114287.910	2.5	172569.270	1.5
171.3350	29.02	-1.36	67016.600	3.5	125381.800	2.5	171.5835	24.01	-7.89	12303.980	3.5	70584.640	2.5
171.3367	28.01	-2.53	9330.040	3.5	67694.640	2.5	171.5841	26.01	-2.40	8391.920	2.5	66672.390	3.5
171.3374	25.01	-4.99	27588.230	3.0	85952.600	3.0	171.5854	24.03	-2.20	175166.000	3.5	233446.000	2.5
171.3382	24.02	-.53	100099.500	4.0	158463.600	3.0	171.5874	26.02	-1.70	121468.820	5.0	179748.170	5.0
171.3398	25.01	-5.97	27589.030	2.0	85952.600	3.0	171.5877	24.01	-6.55	121468.820	2.5	70427.220	3.5
171.3401	25.02	-4.76	84981.630	3.5	143345.070	3.5	171.5897	26.02	-4.04	142047.000	4.0	200325.560	4.0
171.3408	26.02	-3.50	66591.680	1.0	124954.880	1.0	171.5902	25.02	-3.31	62988.920	3.5	121267.320	2.5
171.3411	14.00	-2.94	6298.850	2.0	64661.980	3.0	171.5931	28.02	-.14	54657.900	4.0	112935.300	3.0
171.3476	29.02	-4.03	138084.000	2.5	196444.900	1.5	171.6009	18.01	-4.06	132737.610	.5	191012.350	1.5
171.3553	23.02	-3.02	87544.460	4.5	145902.730	4.5	171.6058	18.01	-4.78	147875.860	2.5	206148.940	3.5
171.3588	8.02	-3.17	300310.310	1.0	358667.400	1.0	171.6096	30.02	-1.38	235452.500	2.0	293724.300	2.0
171.3612	25.02	-.55	114094.970	1.5	172451.230	1.5	171.6207	28.01	-4.90	76402.030	2.5	134670.070	1.5
171.3636	24.01	-8.54	12496.790	4.5	70852.640	3.5	171.6208	25.02	-3.88	85077.090	4.5	143345.070	3.5
171.3649	24.03	-.87	175166.000	3.5	233521.000	4.5	171.6217	26.02	-4.82	130756.840	6.0	189024.530	5.0
171.3683	25.02	-2.21	114501.180	4.5	172855.020	4.5	171.6220	24.02	-.39	95304.100	6.0	153571.700	6.0
171.3724	26.02	-3.12	120826.170	2.0	179178.620	3.0	171.6251	24.01	-1.40	32836.840	3.5	91103.360	4.5
171.3729	26.02	-2.58	73727.640	2.0	132079.910	3.0	171.6252	27.02	-.42	47698.600	1.5	105965.100	2.5
171.3729	26.01	-1.91	44232.510	4.5	102584.810	5.5	171.6310	25.01	-3.95	27546.900	6.0	85811.430	7.0
171.3752	27.01	-2.83	10708.100	3.0	69059.590	3.0	171.6317	26.01	-4.05	13904.870	.5	72169.150	1.5
171.3767	26.02	-3.86	131445.030	2.0	189796.030	1.0	171.6396	29.02	-.57	78779.400	1.5	137041.000	.5
171.3770	24.02	-.83	96713.100	3.0	155064.000	4.0	171.6445	25.02	-2.39	114287.910	2.5	172547.850	2.5
171.3783	23.02	-2.00	99804.570	2.5	158155.000	1.5	171.6474	23.02	-1.49	87880.850	2.5	146139.800	2.5
171.3836	14.00	-3.16	6298.850	2.0	64647.480	3.0	171.6479	30.02	-1.94	238205.500	1.0	296464.300	2.0
171.3845	26.02	-3.56	142047.000	4.0	200395.330	5.0	171.6511	24.02	-3.25	115668.900	5.0	173926.600	6.0
171.3849	28.02	-.52	17841.900	1.0	130190.100	0.0	171.6547	26.02	-1.78	121468.820	5.0	179725.310	6.0
171.3857	14.00	-6.00	6298.850	2.0	64646.780	2.0	171.6558	26.02	-2.01	82494.880	1.0	140750.980	2.0
171.3887	27.02	-4.91	73540.200	3.5	131887.10								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
171.7367	26.02	-2.54	83237.860	3.0	141466.530	3.0	171.9886	28.02	-3.35	55952.000	2.0	114095.400	1.0
171.7378	27.01	-3.54	27484.300	3.0	85712.600	2.0	171.9918	24.02	-3.23	100099.500	4.0	158241.800	5.0
171.7382	25.02	-4.42	84981.630	3.5	143209.800	2.5	171.9931	26.02	-2.24	77075.300	1.0	135217.170	1.0
171.7399	18.01	-2.67	147875.860	2.5	206103.450	1.5	171.9985	26.02	-1.80	76956.790	3.0	135096.840	3.0
171.7411	26.02	-4.08	88663.870	4.0	146891.040	3.0	171.9998	24.02	-1.32	43304.100	2.0	101443.700	2.0
171.7417	26.02	-9.15	30857.800	3.0	89084.790	3.0	172.0027	25.01	-2.51	31661.720	3.0	89800.340	4.0
171.7417	28.01	-2.25	73893.730	1.5	132120.700	.5	172.0033	24.01	-3.09	33418.110	2.5	91556.540	1.5
171.7430	8.02	-4.15	300440.850	2.0	358667.400	1.0	172.0035	26.01	-4.83	13904.870	.5	72043.210	1.5
171.7445	25.02	-3.53	86654.070	4.5	144880.100	5.0	172.0045	20.02	-2.06	324660.470	3.0	382798.500	4.0
171.7446	24.02	-1.18	99840.700	3.0	158066.700	3.0	172.0054	24.01	-4.61	47227.500	3.5	105365.200	4.5
171.7476	23.02	-4.30	88944.380	2.5	147169.340	3.5	172.0057	25.02	-2.22	121091.080	1.5	179228.690	1.5
171.7494	26.02	-2.68	93412.930	2.0	151637.300	1.0	172.0066	27.02	-4.22	72270.500	3.5	130407.800	2.5
171.7574	23.02	-1.99	88327.960	3.5	146549.620	4.5	172.0068	24.01	-4.75	19798.010	2.5	77935.240	2.5
171.7588	26.02	-1.85	89084.790	3.0	147305.970	3.0	172.0084	25.00	-8.34	0.000	2.5	58136.690	3.5
171.7593	29.01	-2.51	72724.000	2.0	130945.000	1.0	172.0113	27.01	-2.02	10708.100	3.0	68843.800	4.0
171.7593	29.01	-3.61	72724.000	2.0	130945.000	2.0	172.0122	28.01	-3.45	75917.630	3.5	134053.050	2.5
171.7599	28.02	-2.66	79143.300	2.0	137364.100	1.0	172.0139	22.01	-1.13	12758.150	2.5	70893.000	3.5
171.7599	26.01	-3.30	8391.920	2.5	66612.740	1.5	172.0182	7.01	-2.21	164610.760	1.0	222744.160	1.0
171.7610	28.01	-1.87	13550.390	3.5	71770.830	2.5	172.0208	23.02	-8.85	43942.490	1.5	102075.000	2.5
171.7716	26.01	-2.07	18360.650	1.5	76577.500	.5	172.0211	25.02	-3.38	86486.770	1.5	144619.190	1.5
171.7741	22.01	-3.68	12676.990	4.5	70893.000	3.5	172.0212	28.01	-4.86	58705.950	1.5	116838.330	1.5
171.7755	25.02	-4.87	174048.890	2.5	232264.420	3.5	172.0227	24.01	-2.03	32854.460	4.5	90986.310	3.5
171.7760	26.01	-2.20	3117.480	1.5	61332.820	1.5	172.0246	24.01	-1.60	32855.090	2.5	90986.310	3.5
171.7814	10.01	-4.02	219130.780	2.5	277344.290	2.5	172.0252	20.02	-1.91	324660.470	3.0	382791.500	3.0
171.7847	30.02	-1.80	238205.500	1.0	296417.900	1.0	172.0264	24.02	-9.97	57422.100	4.0	115552.700	3.0
171.7888	26.03	.31	138336.300	2.5	196547.300	3.5	172.0270	26.01	-2.17	8391.920	2.5	66522.320	2.5
171.7922	26.02	-2.53	79844.740	6.0	138054.590	5.0	172.0309	27.02	-3.86	82363.300	4.5	140492.400	4.5
171.8024	26.02	-2.19	89084.790	3.0	147291.210	2.0	172.0332	27.01	-6.00	22414.500	3.0	80542.800	3.0
171.8039	30.02	-2.53	235452.500	2.0	293658.400	3.0	172.0338	30.02	-1.39	238336.200	2.0	296464.300	2.0
171.8100	26.01	-1.30	2837.940	2.5	61041.780	2.5	172.0338	20.02	-1.83	278621.010	1.0	336749.110	1.0
171.8103	26.02	-2.05	77075.300	1.0	135279.040	2.0	172.0362	27.01	-3.83	27585.300	1.0	85712.600	2.0
171.8114	25.02	.59	121480.240	3.5	179683.610	4.5	172.0429	26.02	-3.94	142312.900	3.0	200437.940	2.0
171.8135	24.00	-9.24	0.000	3.0	58202.650	3.0	172.0430	26.01	-1.84	15844.710	4.5	73969.710	5.5
171.8145	24.02	-4.38	100421.400	5.0	158623.700	4.0	172.0453	20.02	-2.73	324660.470	3.0	382784.700	3.0
171.8172	28.02	-4.43	75123.800	5.0	133325.200	4.0	172.0459	23.02	-2.07	102961.280	3.5	161085.300	4.5
171.8177	28.01	-4.72	75721.680	5.5	133922.910	4.5	172.0482	24.01	-7.23	12303.980	3.5	70427.220	3.5
171.8243	24.03	-4.25	175166.000	3.5	233365.000	3.5	172.0486	26.01	-4.56	7955.240	3.5	66078.340	2.5
171.8261	26.02	-7.34	30886.400	4.0	89084.790	3.0	172.0519	24.02	-2.27	43321.700	3.0	101443.700	2.0
171.8365	25.02	-2.44	63285.370	4.5	121480.240	3.5	172.0546	25.03	.55	137853.000	4.0	195974.100	5.0
171.8367	28.02	-4.02	53703.700	5.0	111898.500	4.0	172.0554	7.02	-2.69	330238.400	1.5	388359.200	1.5
171.8385	26.02	-2.95	79860.420	5.0	138054.590	5.0	172.0578	25.02	-3.05	90440.500	4.5	148560.500	4.5
171.8425	26.01	-3.81	38164.240	2.5	96357.070	3.5	172.0578	25.04	-1.68	184633.000	3.5	242753.000	3.5
171.8435	26.02	-4.55	70725.010	3.0	128917.510	2.0	172.0611	26.01	-6.67	2837.940	2.5	60956.820	3.5
171.8454	20.02	-3.04	324660.470	3.0	382852.300	2.0	172.0631	26.02	-3.11	168329.670	3.0	226447.880	2.0
171.8464	26.02	-1.54	86847.110	2.0	145038.610	3.0	172.0661	18.01	-1.64	150474.900	1.5	208592.110	.5
171.8473	23.02	-3.97	28746.800	2.5	86938.010	2.5	172.0670	18.01	-2.24	150474.900	1.5	208591.780	1.5
171.8473	11.02	-3.02	406200.900	2.5	464392.100	2.5	172.0705	28.02	-4.30	71841.900	1.0	129957.600	1.0
171.8520	24.02	-1.17	56992.200	3.0	115181.800	2.0	172.0714	26.01	-3.34	38164.240	2.5	96279.650	2.5
171.8520	7.03	.05	130695.000	0.0	188884.605	0.0	172.0715	25.02	-3.30	84981.630	3.5	143097.000	3.5
171.8524	25.01	-2.66	31760.930	2.0	89950.400	3.0	172.0734	26.02	-1.59	77102.430	2.0	135217.170	1.0
171.8536	15.00	-4.67	18722.650	.5	76911.700	.5	172.0768	25.03	.26	119961.500	3.0	178075.100	3.0
171.8538	23.02	-1.08	89417.500	3.5	147606.500	3.5	172.0844	26.02	-4.47	121468.820	5.0	179579.830	5.0
171.8557	25.01	-5.73	27570.950	5.0	85759.300	4.0	172.0857	26.02	-2.75	83358.880	2.0	141469.450	1.0
171.8623	26.02	-1.99	128605.650	1.0	186791.780	2.0	172.0876	26.02	-1.27	83429.610	6.0	141539.550	6.0
171.8638	25.02	-3.65	86486.770	1.5	144672.380	2.5	172.0944	26.02	-4.08	83358.880	2.0	141466.530	3.0
171.8643	26.02	-2.73	121008.780	3.0	179194.220	4.0	172.0982	26.02	-2.62	128605.650	1.0	186712.020	1.0
171.8648	24.01	-5.82	19528.380	.5	77713.660	1.5	172.0999	25.03	-4.56	190282.800	3.0	248388.600	3.0
171.8677	25.03	.12	119445.500	2.0	177629.800	2.0	172.1088	25.01	-2.82	27570.950	5.0	85673.720	4.0
171.8688	18.01	-2.48	132327.280	3.5	190511.190	2.5	172.1094	28.01	-2.21	51045.460	4.5	109148.950	4.5
171.8694	26.02	-3.13	84671.870	3.0	142855.590	4.0	172.1102	18.01	-3.46	132630.650	1.5	190732.070	.5
171.8726	23.02	-1.42	88944.380	2.5	147127.000	2.5	172.1122	9.02	-2.38	395268.130	1.5	453369.770	1.5
171.8732	24.01	-6.79	12496.790	4.5	70679.220	4.5	172.1138	30.02	-4.85	194303.300	2.0	252404.400	3.0
171.8761	25.02	-4.07	114501.180	4.5	172682.640	3.5	172.1156	27.02	-5.59	72083.300	4.5	130183.800	3.5
171.8777	22.02	-1.97	77421.480	2.0	135602.400	1.0	172.1159	30.02	-2.24	235623.900	3.0	293724.300	3.0
171.8808	25.02	-4.90	84981.630	3.5	143161.500	4.5	172.1192	14.00	-3.82	6298.850	2.0	64398.120	2.0
171.8875	28.02	-4.30	76237.800	3.0	134415.400	4.0	172.1222	25.02	-3.46	86520.940	2.5	144619.190	1.5
171.8886	27.02	-1.16	76518.900	5.5	134696.100	5.5	172.1247	23.02	-4.73	87880.850	2.5	145978.270	2.5
171.8904	26.02	-1.85	77102.430	2.0	135279.040	2.0	172.1256	28.02	.26	76237.800	3.0	134334.900	3.0
171.8922	25.01	-4.88	27583.300	4.0	85759.300	4.0	172.1319	13.01	-2.23	37453.800	1.0	95548.000	1.0
171.8968	15.00	-3.68	0.000	1.5	58174.450	1.5	172.1344	25.02	-3.28	86578.240	3.5	144672.380	2.5
171.8981	26.01	-4.93	20516.980	2.5	78690.980	2.5	172.1345	13.01	.25	37453.800	1.0	95547.900	2.0
171.9038	9.02	-2.97	431967.930	.5	490140.000	1.5	172.1376	25.01	-2.91	30679.240	5.0	88772.300	5.0
171.9068	25.01	-5.36	27588.230	3.0	85759.300	4.0	172.1409	23.01	-1.87	18293.870	2.0	76385.800	3.0
171.9104	26.02	-3.97	121008.780	3.0	179178.620	3.0	172.1425	25.03	.41	131462.500	5.0	189553.900	5.0
171.9128	24.01	-7.97	12148.000	2.5	70317.040	2.5	172.1452	24.01	-6.35	12303.980	3.5	70394.460	4.5
171.9162	24.00	-8.75	0.000	3.0	58167.890	4.0	172.1454	25.01	-4.73	27583.300	4.0	85673.720	4.0
171.9243	26.02	-2.88	84369.920	2.0	142535.070	2.0	172.1490	25.01	-4.69	27546.900	6.0	85636.100	6.0
171.9270	18.01	.03	151087.250	2.5	209251.460	3.5	172.15						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
172.2196	24.02	-1.25	56650.500	2.0	114715.900	1.0	172.4524	28.02	-0.52	56308.200	1.0	114295.200	0.0
172.2203	25.01	-4.57	27570.950	5.0	85636.100	6.0	172.4566	7.02	-1.91	33035.300	3.5	388310.900	2.5
172.2203	26.01	-3.37	38214.500	1.5	96279.650	2.5	172.4571	26.01	-1.92	8391.920	2.5	66377.370	3.5
172.2243	24.00	-7.44	0.000	3.0	58063.800	2.0	172.4590	23.02	-2.94	97512.000	1.5	155496.800	1.5
172.2279	28.02	.618	56308.200	1.0	114370.800	2.0	172.4610	9.02	-2.79	395385.660	2.5	453369.770	1.5
172.2295	18.01	-3.08	145668.800	1.5	203730.860	1.5	172.4614	10.03	-4.07	643239.000	.5	701223.000	.5
172.2372	23.01	-5.59	20980.920	2.0	79040.400	3.0	172.4614	10.03	-3.93	643239.000	.5	701223.000	1.5
172.2374	29.02	.40	60804.900	4.5	118864.300	3.5	172.4640	23.02	-0.03	89417.500	3.5	147400.620	4.5
172.2416	24.02	-0.96	101745.300	3.0	159803.300	4.0	172.4645	23.02	-0.90	103034.650	4.5	161017.600	3.5
172.2428	26.01	-1.72	7955.240	3.5	66012.830	4.5	172.4672	26.02	-2.58	63486.780	4.0	121468.820	5.0
172.2442	23.02	-2.83	97512.000	1.5	155569.100	2.5	172.4701	26.02	-2.69	76956.790	3.0	134937.840	2.0
172.2455	25.01	-2.24	31514.350	4.0	89571.030	3.0	172.4777	25.02	-1.42	137436.700	4.5	195415.200	4.5
172.2465	23.02	.47	102961.280	3.5	161017.600	3.5	172.4786	28.02	-3.14	86646.200	2.0	144624.400	1.0
172.2489	25.01	-2.55	52373.180	3.0	110428.700	4.0	172.4795	22.02	-0.67	77746.180	3.0	135724.100	2.0
172.2526	14.03	-0.07	160374.410	2.5	218428.670	1.5	172.4805	22.01	-1.27	12628.770	1.5	70606.350	2.5
172.2550	25.01	-3.30	33248.320	4.0	91301.800	5.0	172.4810	29.02	-0.88	63886.300	1.5	121863.700	1.5
172.2562	14.03	-1.03	160375.600	1.5	218428.670	1.5	172.4821	26.01	-9.63	21308.080	1.5	79285.100	2.5
172.2564	14.00	-3.05	6298.850	2.0	64351.850	3.0	172.4835	25.01	-3.46	30795.750	4.0	88772.300	5.0
172.2564	14.00	-2.76	6298.850	2.0	64351.860	1.0	172.4840	25.03	.43	120603.100	4.0	178579.500	4.0
172.2586	26.02	-2.74	168329.670	3.0	226381.910	3.0	172.4845	26.01	-2.92	7955.240	3.5	65931.460	3.5
172.2600	25.01	-7.40	29889.310	3.0	87941.080	4.0	172.4853	26.01	-2.63	3117.480	1.5	61093.440	2.5
172.2623	24.03	-4.70	174854.000	3.5	232905.000	3.5	172.4876	28.01	-1.91	58493.210	2.5	116468.400	1.5
172.2634	23.02	.58	103034.650	4.5	161085.300	4.5	172.4896	25.02	-4.99	85173.880	1.5	143148.400	1.5
172.2651	28.01	-0.53	77332.470	2.5	135382.530	1.5	172.4962	25.01	-4.52	27570.950	5.0	85543.230	5.0
172.2662	27.02	-3.22	110961.500	1.5	169011.200	.5	172.4962	26.01	-1.29	2430.080	3.5	60402.380	2.5
172.2761	28.01	-4.59	72985.650	1.5	131032.010	2.5	172.4987	26.02	-2.79	89334.510	2.0	147305.970	3.0
172.2782	27.01	-2.35	11651.310	2.0	69696.970	3.0	172.5015	26.02	-3.27	168477.360	1.0	226447.880	2.0
172.2798	28.02	-0.47	75646.900	4.0	133692.000	5.0	172.5022	26.01	-1.54	20516.980	2.5	78487.250	1.5
172.2801	24.03	-2.94	104265.000	2.5	162310.000	2.5	172.5029	23.02	-4.62	28746.800	2.5	86716.840	1.5
172.2802	25.01	-3.78	52383.720	4.0	110428.700	4.0	172.5045	13.01	-1.40	37579.300	2.0	95548.800	1.0
172.2831	25.03	-1.54	137930.100	5.0	195974.100	5.0	172.5054	25.01	-8.08	29889.310	3.0	87858.510	2.0
172.2841	26.02	-0.70	63425.170	6.0	121468.820	5.0	172.5072	13.01	-0.23	37579.300	2.0	95547.900	2.0
172.2886	26.02	-4.11	82410.940	2.0	140453.100	3.0	172.5105	13.01	.52	37579.300	2.0	95546.800	3.0
172.2908	27.02	-1.11	73540.200	3.5	131581.600	3.5	172.5114	24.02	-1.27	100099.500	4.0	158066.700	3.0
172.2926	25.03	.25	131170.100	4.0	189210.900	4.0	172.5122	24.02	.47	97097.100	4.0	155064.000	4.0
172.2945	26.02	-2.69	83358.880	2.0	141399.040	2.0	172.5147	18.01	-1.44	147227.970	.5	205194.040	1.5
172.2965	26.02	-3.44	144116.640	3.0	202156.130	2.0	172.5152	26.02	-2.11	121241.670	4.0	179207.570	5.0
172.2979	23.02	-1.01	88944.380	2.5	146983.380	2.5	172.5165	26.02	-1.93	128917.510	2.0	186882.980	3.0
172.2990	28.01	-2.91	10115.660	2.5	68154.310	1.5	172.5180	23.02	-6.23	44110.040	2.5	102075.000	2.5
172.3021	27.01	-0.76	3350.500	5.0	61388.100	4.0	172.5287	25.02	-1.08	121267.320	2.5	179228.690	1.5
172.3027	7.02	-2.58	330273.500	2.5	388310.900	2.5	172.5300	26.02	-3.37	168420.990	2.0	226381.910	3.0
172.3071	25.02	-2.49	85173.880	1.5	143209.800	2.5	172.5306	25.02	-2.36	85200.760	5.5	143161.500	4.5
172.3074	15.04	-2.04	352595.300	2.5	410631.100	2.5	172.5314	23.02	-0.17	98383.530	2.5	156344.000	1.5
172.3074	15.04	-0.74	352595.300	2.5	410631.100	2.5	172.5328	10.04	-1.76	640422.000	1.0	698382.000	2.0
172.3074	15.04	-0.89	352595.300	2.5	410631.100	1.5	172.5330	25.01	-7.00	27583.300	4.0	85543.230	5.0
172.3075	26.02	-4.29	143883.740	5.0	201919.530	4.0	172.5389	9.02	-2.10	395385.660	2.5	453363.620	2.5
172.3098	24.03	-3.34	174854.000	3.5	232889.000	3.5	172.5394	23.02	.16	106441.310	4.5	164399.100	3.5
172.3113	30.02	-1.24	235623.900	3.0	293658.400	3.0	172.5418	24.01	-4.57	47464.940	4.5	105421.900	5.5
172.3163	24.02	.79	115843.500	6.0	173876.300	7.0	172.5418	26.01	-1.86	121919.740	3.0	179876.710	4.0
172.3190	23.01	-1.60	18353.890	3.0	76385.800	3.0	172.5420	23.02	-1.98	106441.310	4.5	164399.200	4.5
172.3205	25.01	-4.22	33147.390	5.0	91178.800	4.0	172.5426	28.01	-2.21	72985.650	1.5	130942.360	1.5
172.3217	24.04	-2.74	168099.000	3.0	226130.000	2.0	172.5426	26.02	-2.27	89334.510	2.0	147291.210	2.0
172.3245	18.01	-3.34	132481.140	2.5	190511.190	2.5	172.5429	25.01	-1.84	36274.290	2.0	94230.900	2.0
172.3271	26.02	-3.82	168477.360	1.0	226506.540	1.0	172.5478	26.02	-2.12	121949.620	5.0	179904.560	6.0
172.3275	28.01	-0.51	68709.760	.5	126738.820	1.5	172.5529	14.00	-2.79	6298.850	2.0	64252.080	2.0
172.3339	26.02	-3.54	168420.990	2.0	226447.880	2.0	172.5533	25.02	-4.10	85173.880	1.5	143127.000	.5
172.3349	28.01	-2.48	58705.950	1.5	116732.510	2.5	172.5550	26.02	-2.91	121241.670	4.0	179194.220	4.0
172.3359	18.01	-2.61	132481.140	2.5	190507.360	1.5	172.5554	18.01	-1.12	147227.970	.5	205180.360	.5
172.3389	10.01	-3.70	246415.040	1.5	304440.240	.5	172.5558	26.02	-1.80	121941.290	4.0	179893.560	5.0
172.3460	25.02	-3.43	116851.690	3.5	174874.500	4.5	172.5590	24.02	-0.47	95778.600	0.0	153729.800	1.0
172.3469	27.01	-3.50	28111.900	2.0	86134.400	1.0	172.5597	25.01	-2.28	31514.350	4.0	89465.300	4.0
172.3481	27.02	-2.04	73861.800	1.5	131883.900	2.5	172.5598	23.01	-2.24	18269.490	1.0	76220.400	2.0
172.3499	24.02	-1.36	100421.400	5.0	158442.900	4.0	172.5682	7.02	-2.68	330325.300	3.5	388273.400	3.5
172.3511	25.02	-1.49	174243.330	3.5	232264.420	3.5	172.5700	28.02	-2.38	81686.900	6.0	139634.400	6.0
172.3517	27.02	-1.64	77383.100	3.5	135404.000	4.5	172.5710	26.02	-2.17	89334.510	2.0	147281.690	1.0
172.3546	25.02	-2.52	85077.090	4.5	143097.000	3.5	172.5781	20.02	-1.64	327962.110	1.0	385906.900	2.0
172.3555	27.02	-1.17	82363.300	4.5	140382.900	3.5	172.5787	23.02	-0.55	98399.420	.5	156344.000	1.5
172.3561	26.02	-1.68	76956.790	3.0	134976.220	3.0	172.5788	14.00	-4.10	6298.850	2.0	64243.380	2.0
172.3658	25.02	-1.39	174048.890	2.5	232065.030	2.5	172.5792	26.02	-3.29	144085.970	4.0	202030.380	3.0
172.3674	17.02	-3.95	146525.600	1.5	204541.200	2.5	172.5802	25.02	-4.43	86578.240	3.5	144522.300	4.5
172.3676	28.01	-4.82	10115.660	2.5	68131.210	3.5	172.5806	26.02	-3.32	121949.620	5.0	179893.560	5.0
172.3704	25.02	-1.75	174464.070	4.5	232478.680	4.5	172.5813	24.02	-0.85	97120.300	3.0	155064.000	4.0
172.3743	26.02	-1.90	77075.300	1.0	135088.600	7.0	172.5835	26.02	-2.45	84369.920	2.0	142312.900	3.0
172.3748	26.02	-4.40	125443.580	4.0	183456.690	3.0	172.5886	23.02	-0.70	87880.850	2.5	145822.110	1.5
172.3750	24.01	-9.14	12303.980	3.5	70317.040	2.5	172.5887	28.01	-1.66	73893.730	1.5	131834.940	2.5
172.3762	26.02	-3.73	142312.900	3.0	200325.560	4.0	172.5945	25.01	-6.82	29919.220	2.0	87858.510	2.0
172.3773	22.02	-2.77	75197.430	2.0	133209.700	3.0	172.5970	26.02	-1.85	89697.520	3.0	147635.950	3.0
172.3774	28.01	-4.31	75917.630	3.5</									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
172.6719	27.02	-1.11	72270.500	3.5	130183.800	3.5
172.6761	25.02	-1.55	117063.740	4.5	174975.650	5.5
172.6774	15.00	-1.72	18747.950	1.5	76659.400	2.5
172.6786	24.01	-5.13	20024.180	3.5	77935.240	2.5
172.6788	24.03	-3.22	174978.000	2.5	232889.000	3.5
172.6838	25.01	-1.16	31661.720	3.0	89571.030	3.0
172.6880	25.01	-4.88	36274.290	2.0	94182.200	3.0
172.6895	25.01	-6.68	29951.120	1.0	87858.510	2.0
172.6918	26.01	-2.14	15844.710	4.5	73751.340	4.5
172.6946	26.02	-7.18	24940.900	4.0	82846.590	4.0
172.6964	24.01	-2.78	33521.230	3.5	91426.310	2.5
172.7018	26.02	-2.04	79860.420	5.0	137763.700	5.0
172.7030	26.02	-3.88	142535.070	2.0	200437.940	2.0
172.7032	25.02	-4.03	18747.950	3.5	232478.680	4.5
172.7049	24.01	-5.33	12496.790	4.5	70399.040	5.5
172.7058	23.02	-2.23	88944.380	2.5	146846.320	1.5
172.7092	25.01	-5.82	27546.900	6.0	85447.700	5.0
172.7103	25.01	-3.14	33278.390	3.0	91178.800	4.0
172.7107	9.02	-1.61	360348.280	.5	418248.560	1.5
172.7149	15.04	-1.33	410631.100	2.5	468530.000	2.5
172.7149	15.04	-4.03	410631.100	2.5	468530.000	3.5
172.7149	15.04	-4.19	410631.100	1.5	468530.000	2.5
172.7185	24.01	-7.65	12496.790	4.5	70399.460	4.5
172.7205	24.02	.52	115668.900	5.0	173565.900	5.0
172.7262	23.02	-1.41	88327.960	3.5	146223.050	3.5
172.7283	13.01	-4.93	37453.800	1.0	95348.200	0.0
172.7351	28.01	-4.12	75917.630	3.5	133809.760	3.5
172.7351	25.01	-4.85	43696.190	3.0	101588.300	3.0
172.7376	14.03	-4.33	160375.600	1.5	218266.860	.5
172.7424	26.01	-3.93	25981.650	3.5	83871.310	4.5
172.7445	14.00	-3.95	6298.850	2.0	64187.800	3.0
172.7467	28.01	-4.22	55018.710	2.5	112906.930	1.5
172.7490	26.02	-2.16	84159.550	4.0	142047.000	4.0
172.7504	26.01	-4.25	25981.650	3.5	83868.650	2.5
172.7514	25.02	-3.22	174874.500	4.5	232761.160	5.5
172.7570	25.02	-.75	121267.320	2.5	179152.090	3.5
172.7572	27.01	-7.30	22414.500	3.0	80299.200	4.0
172.7581	24.01	-4.84	25035.640	.5	82920.030	1.5
172.7601	25.02	-3.40	116692.140	2.5	174575.870	3.5
172.7641	28.02	-1.61	83033.800	2.0	140916.200	2.0
172.7673	10.01	-3.61	280797.260	2.5	338678.570	3.5
172.7696	18.01	-3.46	132630.650	1.5	190511.190	2.5
172.7773	28.01	-4.80	55299.650	4.5	113177.610	3.5
172.7804	24.01	-3.99	25043.100	1.5	82920.030	1.5
172.7810	25.01	-5.01	27570.950	5.0	85447.700	5.0
172.7811	7.02	-1.74	330396.700	4.5	388273.400	3.5
172.7811	15.00	-4.21	.0000	1.5	57876.700	.5
172.7811	18.01	-3.19	132630.650	1.5	190507.360	1.5
172.7884	26.02	-2.58	128917.510	2.0	186791.780	2.0
172.7892	11.05	-.83	996011.000	2.0	1053885.000	2.0
172.7898	26.02	-4.49	77102.430	2.0	134976.220	3.0
172.7912	28.01	-3.49	55299.650	4.5	113172.960	4.5
172.7922	24.01	-3.58	25047.040	2.5	82920.030	1.5
172.7928	24.00	-3.48	8307.570	4.0	66180.340	5.0
172.8018	22.02	-1.06	75197.430	2.0	133067.200	2.0
172.8101	10.04	-1.97	640868.000	2.0	698735.000	3.0
172.8113	25.01	-2.45	36366.300	1.0	94230.900	2.0
172.8113	27.02	-.59	82920.700	3.5	140787.300	2.5
172.8115	23.01	-4.35	18353.890	3.0	76220.400	3.0
172.8136	29.02	-.18	68963.600	2.5	126829.400	2.5
172.8168	26.02	-1.85	83138.230	5.0	141002.990	4.0
172.8178	25.01	-5.31	27583.300	4.0	85447.700	5.0
172.8214	26.02	-2.92	84671.870	3.0	142535.070	2.0
172.8234	26.02	-2.62	77075.300	1.0	134937.840	2.0
172.8235	27.02	-1.38	82363.300	4.5	140225.800	3.5
172.8253	26.01	-3.24	36126.410	1.5	93988.300	2.5
172.8285	28.01	-4.94	72375.420	1.5	130236.260	2.5
172.8296	26.01	-3.67	20830.520	2.5	78690.980	2.5
172.8329	25.02	-1.08	121480.240	3.5	179339.590	2.5
172.8383	25.01	-2.22	31661.720	3.0	89519.250	2.0
172.8417	25.02	-3.45	116580.170	1.5	174436.590	2.5
172.8459	27.02	-1.57	73726.600	2.5	131581.600	3.5
172.8470	20.02	-4.46	214334.060	2.0	272188.700	1.0
172.8538	26.02	-1.36	89783.590	4.0	147635.950	3.0
172.8567	28.02	-1.16	83033.800	2.0	140885.200	1.0
172.8579	25.03	-2.80	138123.100	6.0	195974.100	5.0
172.8650	26.03	-1.84	138336.300	2.5	196184.900	1.5
172.8653	25.01	-5.28	29869.110	2.0	87717.620	3.0
172.8662	22.01	-2.71	12758.150	2.5	70606.350	2.5
172.8728	23.02	.02	98825.190	3.5	156671.200	2.5
172.8746	28.02	.18	97996.300	3.0	155841.700	4.0
172.8808	23.02	-5.94	43942.490	1.5	101785.810	1.5
172.8832	10.01	-4.26	246597.710	.5	304440.240	.5
172.8852	26.01	-1.97	8680.470	1.5	66522.320	2.5
172.8862	26.02	-2.24	83161.480	4.0	141002.990	4.0
172.8878	26.02	-3.25	121919.740	3.0	179760.720	3.0
172.8887	23.02	-.55	89005.640	.5	146846.320	1.5
172.8901	9.02	-1.36	360348.280	.5	418188.480	.5
172.8960	26.02	-4.12	121919.740	3.0	179757.980	4.0
172.8962	23.02	-2.92	49327.740	2.5	107165.900	1.5
172.8985	26.02	-3.76	142047.000	4.0	199884.390	5.0
172.9022	18.01	-.37	151087.250	2.5	208923.410	2.5
172.9045	26.02	-2.23	77102.430	2.0	134937.840	2.0
172.9086	23.02	-2.06	86938.010	2.5	144772.020	3.5
172.9088	18.01	-1.51	151087.250	2.5	208921.200	1.5
172.9100	26.02	-2.95	144085.970	4.0	201919.530	4.0
172.9117	18.01	-4.24	145668.800	1.5	203501.800	2.5
172.9155	25.01	-3.92	52373.180	3.0	110204.900	3.0
172.9192	23.01	-4.36	14461.730	3.0	72292.200	4.0
172.9203	11.02	-2.52	408562.000	1.5	464392.100	2.5
172.9218	28.02	-.56	84604.800	1.0	142434.400	2.0
172.9257	25.01	-6.63	29889.310	3.0	87717.620	3.0
172.9259	18.01	-1.68	147227.970	.5	205056.220	1.5
172.9269	29.02	-1.88	78779.400	1.5	136607.300	2.5
172.9271	25.02	-2.64	174436.590	2.5	232264.420	3.5
172.9340	25.01	-4.10	52379.380	2.0	110204.900	3.0
172.9431	26.02	-3.91	83646.980	1.0	141469.450	1.0
172.9455	25.02	-2.80	174243.330	3.5	232065.030	2.5
172.9460	28.02	.13	79143.300	2.0	136964.800	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
172.9470	25.01	-3.63	52383.720	4.0	110204.900	3.0
172.9490	26.01	-3.57	36252.960	2.5	94073.460	3.5
172.9493	24.02	-1.56	100421.400	5.0	158241.800	5.0
172.9505	24.04	-1.00	171736.000	2.0	229556.000	2.0
172.9522	26.02	-4.44	121941.290	4.0	179760.720	3.0
172.9526	24.02	-1.09	115843.500	6.0	173662.800	6.0
172.9530	26.02	-2.55	125637.980	3.0	183457.150	4.0
172.9544	26.02	-4.33	125637.980	3.0	183456.690	3.0
172.9554	24.01	-4.44	25035.640	.5	82854.000	.5
172.9576	28.01	-3.74	75917.630	3.5	133735.260	2.5
172.9583	17.02	-4.68	201073.400	.5	258890.800	1.5
172.9585	28.01	-2.41	75917.630	3.5	133734.980	3.5
172.9604	26.02	-2.76	121941.290	4.0	179757.980	4.0
172.9609	26.02	-4.29	166222.200	4.0	224038.730	5.0
172.9625	25.02	-1.62	137599.200	3.5	195415.200	4.5
172.9626	28.01	-3.92	52205.950	3.5	110021.920	4.5
172.9628	20.02	-2.66	328090.990	2.0	385906.900	2.0
172.9672	25.02	-2.95	90746.060	5.5	148560.500	4.5
172.9700	9.02	-.98	360435.080	1.5	418248.560	1.5
172.9707	26.01	-6.28	26055.400	2.5	83868.650	2.5
172.9739	27.02	-.90	73286.000	4.5	131098.200	4.5
172.9749	23.02	-.41	88327.960	3.5	146139.800	2.5
172.9778	24.01	-4.27	25043.100	1.5	82854.000	.5
172.9782	25.02	-1.29	117063.740	4.5	174874.500	4.5
172.9802	25.01	-2.63	31760.930	2.0	89571.030	3.0
172.9819	7.02	.72	330325.300	3.5	388134.800	4.5
172.9822	7.02	.60	330273.500	2.5	388082.900	3.5
172.9834	10.04	-.85	640422.000	1.0	698231.000	1.0
172.9849	24.02	-1.92	100099.500	4.0	157908.000	4.0
172.9854	26.02	-4.10	121949.620	5.0	179757.980	4.0
172.9894	24.03	-3.03	104265.000	2.5	162072.000	3.5
172.9898	26.02	-3.18	121941.290	4.0	179748.170	5.0
172.9910	26.02	-3.69	144085.970	4.0	201892.440	5.0
172.9918	24.01	-6.11	12148.000	2.5	69954.200	2.5
172.9989	24.01	-6.27	12303.980	3.5	70107.830	4.5
172.9997	25.01	-2.80	31661.720	3.0	89465.300	4.0
173.0017	26.02	-4.48	144116.640	3.0	201919.530	4.0
173.0065	7.02	.84	330396.700	4.5	388198.000	5.5
173.0080	7.02	.48	330238.400	1.5	388039.200	2.5
173.0093	25.02	-3.51	174464.070	4.5	232264.420	3.5
173.0109	26.02	-3.60	89491.390	1.0	147291.210	2.0
173.0147	26.02	-3.44	121949.620	5.0	179748.170	5.0
173.0152	25.01	-5.67	29919.220	2.0	87717.620	3.0
173.0206	24.02	-2.41	99840.700	3.0	157637.300	3.0
173.0218	23.02	-4.47	27272.800	3.5	85524.000	2.5
173.0236	28.02	-.55	78303.100	2.0	136098.700	1.0
173.0268	26.02	-3.81	128917.510	2.0	186712.020	1.0
173.0274	28.01	-2.53	57080.550	3.5	114874.880	2.5
173.0364	17.02	-2.65	146749.900	2.5	205451.200	2.5
173.0380	23.02	-1.20	98062.220	1.5	155853.000	2.5
173.0394	26.02	-3.91	89491.390	1.0	147281.690	1.0
173.0406	23.02	-.69	89193.470	1.5	146983.380	2.5
173.0477	14.00	-3.04	6298.850	2.0	64086.370	1.0
173.0487	28.02	-.33	56308.200	1.0	114095.400	1.0
173.0502	25.03	.18	130969.500	3.0	188756.200	3.0
173.0508	24.00	-4.50	8307.570	4.0	66094.060	4.0
173.0527	9.02	-4.88	384493.060	1.5	442278.930	2.5
173.0538	25.02	-.98	174975.650	5.5	232761.160	5.5
173.0587	26.02	-3.02	125672.830	2.0	183456.690	3.0
173.0648	10.01	-2.97	246192.450	2.5	303974.290	1.5
173.0670	27.02	.17	77622.900	4.5	135404.000	4.5
173.0706	12.02	-.40	474053.200	3.0	531833.100	3.0
173.0714	25.01	-7.12	27588.230	3.0	85367.850	2.0
173.0738	25.01	-6.03	27589.030	2.0	85367.850	2.0
173.0739	29.02	-1.32	80305.200	1.5	138084.000	2.5
173.0778	12.02	-1.95	478374.500	1.0	536152.000	1.0
173.0816	20.02	-3.62	328090.990	2.0	385867.200	3.0
173.0832	26.02	-2.33	121949.620	5.0	179725.310	6.0
173.0840	25.01	-4.84	52653.270	4.0	110428.700	4.0
173.0846	26.02	-.64	63466.390	5.0	121241.670	4.0
173.0873	25.02	-.64	137908.200	5.5	195682.500	5.5
173.0891	24.02	-2.03	70980.200	1.0	128753.900	2.0
173.1003	25.01	-4.15	33248.320	4.0	91018.300	3.0
173.1010	18.01	-3.23	132737.610	.5	190507.360	1.5
173.1014	28.02	-3.84	79250.800	4.0	137020.400	5.0
173.1034	26.01	-1.29	18360.650	1.5	76129.580	1.0
173.1056	27.02	-3.81	73286.000	4.5	131054.200	5.5
173.1065	11.02	-3.06	406200.900	2.5	463968.800	3.5
173.1090	25.01	-4.96	31661.720	3.0	89428.800	3.0
173.1110	25.02	-3.48	90440.500	5.5	148206.900	5.5
173.1118	23.02	-.60	87880.850	2.5	145647.000	1.5
173.1123	26.01	-2.11	8846.760	.5	66612.740	1.5
173.1131	7.02	-.32	330273.500	2.5	388039.200	2.5
173.1132	26.02	-5.00	147326.850	4.0	205092.530	4.0
173.1148	26.02	-3.02	83237.860	3.0	141002.990	4.0
173.1212	11.05	-.83	996734.000	3.0	1054497.000	3.0
173.1226	18.02	-4.35	226355.960	2.0	284118.510	1.0
173.1229	28.01	-3.33	58705.950	1.5	116468.000	1.5
173.1242	24.03	-3.27	104003.000	1.5	161765.000	1.5
173.1309	28.01	-3.05	55417.830	3.5	113177.610	3.5
173.1337	26.01	-.69	15844.710	4.5	73603.530	5.5
173.1352	25.01	-1.24	31760.930	2.0	89519.250	2.0
173.1368	26.02	-3.58	142047.000	3.0	199804.810	4.0
173.1374	7.02	-.20	330325.300	3.5	388082.900	3.5
173.1387	26.02	-2.86	121919.740	3.0	179676.890	2.0
173.1419	28.01	-3.61	57080.550	3.5	114836.630	3.5
173.1438	24.01	-6.78	12148.000	2.5	69903.460	3.5
173.1448	28.01	-4.38	55417.830	3.5	113172.960	4.5
173.1453	25.02	-4.54	137660.240	3.5	195451.200	4.5
173.1455	26.02	-1.90	63486.780	4.0	121241.670	4.0
173.1457	25.01	-2.94	34761.810	5.0	92516.650	4.0
173.1500	9.02	-1.68	360435.080	1.5	418188.480	.5
173.1520	25.02	-3.31	116580.170	1.5	174332.910	1.5
173.1527	24.02	-.06	97097.100	4.0	154849.600	5.0
173.1540	26.02	-3.77	83646.980	1.0	141399.040	2.0
173.1547	23.02	-1.01	89417.500	3.5	147169.340	3.5
173.1606	26.01	-6.82	21581.640	4.5	79331.490	3.5
173.1650	25.03	-.31	131462.500	5.0	189210.900	4.0
173.1672	26.02	-3.90	63494.000	3.0	121241.670	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
173.1672	26.02	-2.66	121468.820	5.0	179216.470	6.0	173.4194	23.01	-4.81	8640.210	2.0	66303.880	3.0
173.1675	26.02	-3.06	142908.480	5.0	200656.020	6.0	173.4210	26.02	-3.69	128605.650	1.0	186268.790	2.0
173.1693	25.02	-3.85	137935.530	4.5	195682.500	5.5	173.4232	29.01	-2.70	72724.000	2.0	130386.400	2.0
173.1737	25.01	-4.16	49427.320	4.0	107172.800	3.0	173.4243	13.02	-3.09	143713.500	1.5	201375.560	1.5
173.1752	24.02	-2.10	96148.500	1.0	153893.500	2.0	173.4253	13.02	-2.14	143713.500	1.5	201375.560	1.5
173.1768	25.02	-2.36	116692.140	2.5	174436.590	2.5	173.4350	9.01	-1.70	207699.070	1.0	265357.560	1.0
173.1782	24.02	-6.62	96713.100	3.0	154457.100	4.0	173.4391	9.01	-4.77	230998.600	3.0	288655.720	4.0
173.1785	28.02	-7.70	75646.900	4.0	133390.800	3.0	173.4403	26.01	-6.42	20830.520	2.5	78487.250	1.5
173.1785	12.02	-2.26	477435.700	2.0	535179.600	2.0	173.4439	9.01	-2.18	207702.040	0.0	265357.560	1.0
173.1836	13.02	-2.39	143633.380	.5	201375.560	1.5	173.4466	26.02	-1.18	86847.110	2.0	144501.740	2.0
173.1849	26.02	-3.34	121919.740	3.0	179661.480	3.0	173.4473	26.02	-2.23	144501.740	2.0	202156.130	2.0
173.1851	27.01	-5.28	24886.500	2.0	82628.200	3.0	173.4492	9.01	-1.48	207703.790	2.0	265357.560	1.0
173.1876	26.01	-1.85	7955.240	3.5	65696.110	4.5	173.4498	25.01	-4.58	14593.820	3.0	72247.380	3.0
173.1893	18.02	-2.27	226355.960	2.0	284096.260	2.0	173.4520	23.02	-1.15	89193.470	1.5	146846.320	1.5
173.1904	25.01	-2.26	33278.390	3.0	91018.300	3.0	173.4526	10.01	-4.17	281025.940	2.5	338678.570	3.5
173.1911	27.02	-2.88	73540.200	3.5	131279.900	3.5	173.4531	28.01	-2.56	58493.210	2.5	116145.690	3.5
173.1920	23.02	-1.35	98062.220	1.5	155801.600	1.5	173.4575	28.01	-2.95	76402.030	2.5	134053.050	2.5
173.1932	24.03	-4.04	175166.000	3.5	232905.000	3.5	173.4596	23.02	-4.34	88327.960	3.5	145978.270	2.5
173.1939	26.02	-4.10	121468.820	5.0	179207.570	5.0	173.4599	24.01	-6.56	12303.980	3.5	69954.200	2.5
173.1959	27.01	-2.17	11321.500	2.0	69059.590	3.0	173.4605	24.03	-7.79	127218.000	3.5	184868.000	3.5
173.1959	7.02	-3.32	330396.700	4.5	388134.800	4.5	173.4719	14.00	-3.21	6298.850	2.0	63945.090	3.0
173.1965	25.01	-4.97	43850.420	2.0	101588.300	3.0	173.4852	29.02	-2.92	139756.600	2.5	197398.400	2.5
173.1968	26.02	-4.60	147354.750	5.0	205092.530	4.0	173.4852	12.01	-1.10	35669.310	.5	93311.110	1.5
173.2018	23.01	-3.43	14556.090	4.0	72292.200	4.0	173.4873	9.01	-4.18	230997.660	4.0	288638.780	5.0
173.2024	23.01	-5.66	11908.270	2.0	69644.200	3.0	173.4874	26.00	-5.47	0.000	4.0	57641.060	3.0
173.2041	26.01	-4.68	36252.960	2.5	93988.300	2.5	173.4875	26.02	-2.24	84671.870	3.0	142312.900	3.0
173.2138	25.02	-2.22	174332.910	1.5	232065.030	2.5	173.4883	25.02	-2.23	116692.140	2.5	174332.910	1.5
173.2226	23.02	-5.11	44345.820	3.5	102075.000	2.5	173.4905	28.01	-5.53	52205.950	3.5	109846.000	3.5
173.2259	26.02	-1.12	89907.850	4.0	147635.950	3.0	173.4950	28.02	-3.19	121941.290	4.0	179579.830	5.0
173.2259	27.02	-2.70	111283.100	.5	169011.200	.5	173.4960	14.01	-2.52	65500.730	.5	123138.930	1.5
173.2280	27.02	-2.47	110961.500	1.5	168688.900	2.5	173.4985	26.02	-3.72	166421.330	4.0	224058.700	4.0
173.2325	25.02	-7.70	121091.080	1.5	178816.960	2.5	173.5010	23.01	-2.14	14655.630	5.0	72292.200	4.0
173.2331	18.02	-3.91	209151.820	2.0	266877.500	3.0	173.5026	9.01	-4.46	230998.600	3.0	288634.620	3.0
173.2361	27.02	-1.04	82920.700	3.5	140645.400	3.5	173.5062	9.01	-4.31	230999.780	2.0	288634.620	3.0
173.2376	25.02	-1.71	116851.690	3.5	174575.870	3.5	173.5078	9.01	-4.55	230999.780	2.0	288634.070	2.0
173.2399	26.02	-1.11	86847.110	2.0	144570.530	3.0	173.5109	9.01	-4.52	231000.790	1.0	288634.070	2.0
173.2412	24.03	-2.00	175166.000	3.5	232889.000	3.5	173.5138	28.01	-1.24	77332.470	2.5	134964.780	1.5
173.2430	24.02	-4.74	115843.500	6.0	173565.900	5.0	173.5142	25.02	-4.46	90936.220	1.5	148568.400	2.5
173.2496	26.02	-2.12	121941.290	4.0	179661.480	3.0	173.5198	26.02	-2.43	166421.330	4.0	224051.630	3.0
173.2518	14.00	-3.78	6298.850	2.0	64018.310	1.0	173.5198	24.02	.61	115570.200	4.0	173200.500	5.0
173.2544	27.02	-1.15	71873.700	5.5	129592.300	4.5	173.5198	24.02	-1.11	101745.300	3.0	159375.600	3.0
173.2568	28.02	-1.41	82826.900	4.0	140544.700	3.0	173.5199	9.01	-4.99	231000.790	1.0	288631.070	1.0
173.2580	26.02	-2.67	73727.640	2.0	131445.030	2.0	173.5201	26.02	-1.73	121949.620	5.0	179579.830	5.0
173.2606	26.02	-4.23	87901.870	3.0	145618.390	2.0	173.5227	9.01	-4.90	230999.780	2.0	288629.120	3.0
173.2682	28.02	-1.73	79250.800	4.0	136964.800	3.0	173.5237	9.01	-4.36	230997.660	4.0	288626.670	5.0
173.2682	10.03	-4.07	641908.000	.5	699622.000	1.5	173.5246	9.01	-4.74	230998.600	3.0	288627.330	4.0
173.2685	7.02	-1.75	330325.300	3.5	388039.200	2.5	173.5254	25.02	-1.38	174436.590	2.5	232065.030	2.5
173.2712	25.01	-1.61	14593.820	3.0	72306.810	2.0	173.5271	25.02	-1.14	91906.100	2.5	149533.980	1.5
173.2752	23.02	-3.85	89457.670	2.5	147169.340	3.5	173.5307	26.02	-3.12	124854.040	3.0	182480.720	2.0
173.2771	26.02	-3.81	121919.740	3.0	179630.770	4.0	173.5355	18.01	-2.61	132481.140	2.5	190106.230	1.5
173.2785	18.01	-3.97	144709.910	.5	202420.490	.5	173.5400	27.02	-2.28	72083.300	4.5	129706.900	3.5
173.2817	23.02	-2.40	89417.500	3.5	147127.000	2.5	173.5432	26.02	-2.10	89783.590	4.0	147406.140	5.0
173.2922	26.03	-6.62	138841.300	3.5	196547.300	3.5	173.5492	26.01	-1.31	20516.980	2.5	78137.530	3.5
173.2943	24.02	-3.80	97358.700	4.0	155064.000	4.0	173.5521	26.01	-8.04	21711.890	3.5	79331.490	3.5
173.2964	26.02	-2.32	132079.910	3.0	189784.420	2.0	173.5577	28.01	-4.03	10663.890	1.5	68281.620	.5
173.2976	26.02	-4.54	25142.400	3.0	82846.590	4.0	173.5590	29.02	-1.55	139756.600	2.5	197373.900	3.5
173.2991	24.02	.06	102099.600	4.0	159803.300	4.0	173.5626	24.02	-1.81	71166.100	2.0	128782.200	3.0
173.2997	29.02	-1.99	78779.400	1.5	136482.900	1.5	173.5635	28.02	-1.90	78482.900	1.0	136098.700	1.0
173.3009	29.02	-3.37	138084.000	2.5	195787.100	3.5	173.5662	25.01	-4.75	52379.380	2.0	109994.300	1.0
173.3009	23.02	-5.66	43942.490	1.5	101645.610	.5	173.5738	25.02	-2.09	116851.690	3.5	174464.070	4.5
173.3061	24.00	-5.65	8307.570	4.0	66008.950	3.0	173.5760	25.01	-1.97	31514.350	4.0	89126.000	3.0
173.3069	26.01	-1.72	26170.190	5.5	83871.310	4.5	173.5778	24.01	-6.37	12496.790	4.5	70107.830	4.5
173.3071	28.01	-3.80	55018.710	2.5	112719.750	3.5	173.5906	25.02	-2.05	91906.100	2.5	149512.900	1.5
173.3108	24.02	-1.04	96385.900	2.0	154085.700	3.0	173.5919	28.01	-4.97	58705.950	1.5	116312.340	1.5
173.3132	28.02	-4.01	55952.000	2.0	113651.000	2.0	173.5923	23.01	-6.09	12621.570	5.0	70227.800	5.0
173.3155	28.01	-2.55	58493.210	2.5	116191.470	2.5	173.5924	25.01	-4.69	34910.430	4.0	92516.650	4.0
173.3157	26.02	-2.12	144332.210	4.0	202030.380	3.0	173.5929	24.01	-6.64	12032.720	1.5	69638.770	1.5
173.3243	25.01	-4.00	52373.180	3.0	110068.500	2.0	173.5960	26.01	-4.44	41968.110	5.5	99573.110	4.5
173.3267	27.02	-1.71	73214.500	.5	130909.000	1.5	173.5985	25.02	-1.05	174874.500	4.5	232478.680	4.5
173.3348	14.00	-3.07	6298.850	2.0	63990.670	2.0	173.6006	28.02	.01	98238.200	4.0	155841.700	4.0
173.3370	26.02	-2.98	132104.940	2.0	189796.030	1.0	173.6039	27.02	-2.81	111283.100	.5	168885.500	1.5
173.3372	18.01	-1.33	147503.020	1.5	205194.040	1.5	173.6042	28.02	-4.48	97841.400	2.0	155443.700	2.0
173.3375	25.01	-5.50	29889.310	3.0	87580.230	4.0	173.6078	26.01	-4.49	7955.240	3.5	65556.340	4.5
173.3380	26.01	-2.76	18886.750	.5	76577.500	.5	173.6090	27.01	-4.25	28111.900	2.0	85712.600	2.0
173.3418	26.02	-2.09	121941.290	4.0	179630.770	4.0	173.6127	24.01	-6.75	12303.980	3.5	69903.460	3.5
173.3446	25.02	-1.18	174575.870	3.5	232264.420	3.5	173.6136	26.02	-2.63	132079.910	3.0	189679.070	3.0
173.3510	26.01	-3.35	8391.920	2.5	66078.340	2.5	173.6142	23.02	-1.30	87544.460	4.5	145143.430	4.5
173.3517	7.02	-1.86	330396.70										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
173.6833	18.01	-1.12	147503.020	1.5	205079.070	2.5
173.6865	27.02	-1.15	77121.100	4.5	134696.100	5.5
173.6872	23.02	-3.32	88327.960	3.5	145902.730	4.5
173.6891	26.02	-2.77	132104.940	2.0	189679.070	3.0
173.6919	26.01	-7.71	21711.890	3.5	79285.100	2.5
173.6965	27.02	-4.19	82920.700	3.5	140492.400	4.5
173.6986	18.02	-3.79	209151.820	2.0	266722.800	2.0
173.7070	24.01	-2.10	33418.110	2.5	90986.310	3.5
173.7070	26.01	-5.30	8680.470	1.5	66248.670	.5
173.7140	23.02	-2.43	89417.500	3.5	146983.380	2.5
173.7151	18.01	-2.60	132630.650	1.5	190196.160	.5
173.7169	14.00	-6.62	6298.850	2.0	63863.780	2.0
173.7177	26.02	-1.70	124854.040	3.0	182418.700	4.0
173.7184	26.01	-2.06	2837.940	2.5	60402.380	2.5
173.7202	18.02	-2.24	226355.960	2.0	283919.780	3.0
173.7288	10.01	-4.50	280989.530	1.5	338550.510	.5
173.7296	26.02	-4.62	166498.000	3.0	224058.700	4.0
173.7311	26.02	-4.97	144332.210	4.0	201892.440	5.0
173.7318	27.01	-3.27	27484.300	3.0	85044.300	3.0
173.7340	10.01	-3.37	246415.040	1.5	303974.290	1.5
173.7354	17.02	-3.87	201332.000	1.5	258890.800	1.5
173.7360	26.02	-3.08	124854.040	3.0	182412.650	4.0
173.7378	27.02	-1.55	73540.200	3.5	131098.200	4.5
173.7407	24.00	-8.59	0.000	3.0	57557.030	3.0
173.7443	28.01	-3.27	58705.950	1.5	116261.810	.5
173.7472	26.02	-2.01	124854.040	3.0	182408.910	3.0
173.7482	26.01	-2.56	18360.650	1.5	75915.210	2.5
173.7491	23.01	-1.30	18293.870	2.0	75848.130	3.0
173.7505	17.02	-4.16	201332.000	1.5	258885.800	2.5
173.7520	27.02	-1.22	73726.600	2.5	131279.900	3.5
173.7523	18.01	-1.59	147503.020	1.5	205056.220	1.5
173.7526	23.02	-2.32	87218.920	3.5	144772.020	3.5
173.7584	25.02	-2.77	116692.140	2.5	174243.330	3.5
173.7589	10.03	-3.42	643672.000	1.5	701223.000	.5
173.7589	10.03	-3.25	643672.000	1.5	701223.000	1.5
173.7613	12.01	-1.81	35760.880	1.5	93311.110	1.5
173.7628	12.01	-8.5	35760.880	1.5	93310.590	2.5
173.7630	25.02	-3.35	121267.320	2.5	178816.960	2.5
173.7672	25.01	-2.37	31514.350	4.0	89062.600	5.0
173.7810	18.01	-4.26	144709.910	.5	202253.590	1.5
173.7894	29.02	-9.5	67016.600	3.5	124557.500	3.5
173.7898	26.02	-4.23	124903.920	2.0	182444.700	3.0
173.7935	26.01	-2.45	8391.920	2.5	65931.460	3.5
173.7939	25.01	-8.8	14781.190	2.0	72320.620	1.0
173.7966	26.02	-3.64	124854.040	3.0	182392.550	2.0
173.7988	24.02	-2.20	100099.500	4.0	157637.300	3.0
173.8007	23.02	-1.92	42267.400	2.5	99804.570	2.5
173.8030	28.01	-1.52	70358.940	4.5	127895.330	3.5
173.8043	25.01	-2.99	9472.970	2.0	67008.930	3.0
173.8059	28.01	-7.9	53037.930	2.5	110573.360	2.5
173.8106	26.01	-3.01	21308.080	1.5	78841.970	.5
173.8148	29.02	-5.9	80551.500	2.5	138084.000	2.5
173.8175	24.02	-4.7	115668.900	5.0	173200.500	5.0
173.8178	26.02	-4.97	124954.880	1.0	182486.400	1.0
173.8221	26.02	-4.63	122346.610	3.0	179876.710	4.0
173.8248	28.02	.15	55406.100	3.0	112935.300	3.0
173.8263	26.02	-3.75	124855.590	4.0	200384.280	3.0
173.8265	26.02	-4.96	144501.740	2.0	202030.380	3.0
173.8288	28.01	-2.01	76402.030	2.5	133929.880	3.5
173.8296	24.02	-1.61	71321.800	3.0	128849.400	4.0
173.8317	28.01	-9.3	70358.940	4.5	127885.860	4.5
173.8337	28.01	-2.63	75917.630	3.5	133443.890	2.5
173.8349	26.02	-3.03	124954.880	1.0	182480.720	2.0
173.8353	23.02	-1.45	89457.670	2.5	146983.380	2.5
173.8356	25.01	-9.4	14781.190	2.0	72306.810	2.0
173.8457	28.01	-2.52	57420.160	2.5	114942.420	1.5
173.8465	26.02	-8.1	63486.780	4.0	121008.780	3.0
173.8476	23.01	-3.28	12706.150	6.0	70227.800	5.0
173.8545	28.01	-6.8	53601.190	1.5	111120.540	1.5
173.8561	25.01	-2.62	30679.240	5.0	88198.070	6.0
173.8571	26.01	-3.84	26352.800	4.5	83871.310	4.5
173.8617	26.01	-4.68	42401.330	1.5	99918.300	1.5
173.8650	29.02	-7.6	89017.700	4.5	146533.600	4.5
173.8650	27.02	-1.56	73286.000	4.5	130801.900	4.5
173.8684	26.02	-1.27	63494.000	3.0	121008.780	3.0
173.8699	26.02	-2.83	109570.840	2.0	167085.120	3.0
173.8700	26.02	-2.43	63494.560	2.0	121008.780	3.0
173.8707	10.04	-6.2	640868.000	2.0	698382.000	2.0
173.8734	26.02	-3.14	83237.860	3.0	140750.980	2.0
173.8736	10.01	-1.69	246415.040	1.5	303928.100	.5
173.8761	25.01	-3.80	35004.430	3.0	92516.650	4.0
173.8763	25.00	-6.04	0.000	2.5	57512.160	1.5
173.8764	25.02	-1.80	117063.740	4.5	174575.870	3.5
173.8786	28.02	.29	75646.900	4.0	133158.300	3.0
173.8801	28.02	.32	83033.800	2.0	140544.700	3.0
173.8812	26.02	-2.83	131445.030	2.0	188955.560	3.0
173.8834	12.02	.67	474053.200	3.0	531563.000	4.0
173.8858	27.02	-4.49	72083.300	4.5	129592.300	4.5
173.8879	29.02	-2.25	136607.300	2.5	194115.600	3.5
173.8901	24.02	-3.36	96385.900	2.0	153893.500	2.0
173.8913	10.01	-3.54	281171.380	2.5	338678.570	3.5
173.8919	25.02	-1.37	137908.200	5.5	195415.200	4.5
173.8922	23.02	-2.03	98062.220	1.5	155569.100	2.5
173.8931	23.03	-1.66	96412.100	2.0	153918.700	3.0
173.8980	26.02	-4.19	124903.920	2.0	182408.910	3.0
173.8993	18.01	-1.34	151087.250	2.5	208591.780	1.5
173.9003	25.01	-2.37	36364.300	1.0	93868.500	1.0
173.9039	25.02	-1.84	174975.650	5.5	232478.680	4.5
173.9040	24.03	-3.46	1904003.000	1.5	161506.000	2.5
173.9040	16.03	-4.44	213507.400	.5	271010.400	.5
173.9101	28.01	-4.31	76402.030	2.5	133903.000	1.5
173.9104	28.01	-4.01	71770.830	2.5	129271.720	3.5
173.9129	26.01	-3.79	25805.320	4.5	83305.370	3.5
173.9130	24.03	-9.6	104265.000	2.5	161765.000	1.5
173.9182	26.02	-3.65	89907.850	4.0	147406.140	5.0
173.9182	26.02	-5.0	89907.850	5.0	147406.140	5.0
173.9251	17.02	-2.97	146525.600	1.5	204021.600	.5
173.9286	23.02	.24	106903.350	5.5	164398.200	4.5
173.9305	23.01	-4.85	18353.890	3.0	75848.130	3.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
173.9375	26.02	-3.49	142312.900	3.0	199804.810	4.0
173.9394	26.03	-2.23	138841.300	3.5	196332.600	2.5
173.9406	24.02	.39	97358.700	4.0	154849.600	5.0
173.9410	24.01	-7.02	12148.000	2.5	69638.770	1.5
173.9420	28.01	-4.01	10663.890	1.5	68154.310	1.5
173.9427	27.01	-3.02	4950.000	2.0	62440.200	1.0
173.9442	23.02	-4.84	99181.500	1.5	156671.200	2.5
173.9458	25.02	-1.55	174575.870	3.5	232065.030	2.5
173.9458	26.01	-4.35	42334.860	2.5	99824.040	2.5
173.9463	27.02	-2.05	70934.100	2.5	128423.100	1.5
173.9469	23.01	-1.66	18269.490	1.0	75758.290	2.0
173.9474	26.02	-3.54	124903.920	2.0	182392.550	2.0
173.9496	12.02	-1.74	477435.700	2.0	534923.600	3.0
173.9503	29.02	.50	89045.900	3.5	146533.600	4.5
173.9521	25.00	-4.60	0.000	2.5	57487.080	2.5
173.9536	24.02	-2.35	100421.400	5.0	157908.000	4.0
173.9569	28.01	-2.59	58705.950	1.5	116191.470	2.5
173.9608	24.01	-2.11	33619.130	4.5	91103.360	4.5
173.9705	27.01	-6.16	25147.200	4.0	82628.200	3.0
173.9723	9.02	-4.95	395268.130	1.5	452748.540	2.5
173.9746	25.02	-1.66	137935.530	4.5	195415.200	4.5
173.9783	26.01	-4.54	42439.880	.5	99918.300	1.5
173.9832	27.02	-4.1	72270.500	3.5	129747.300	2.5
173.9869	18.01	-3.90	132630.650	1.5	190106.230	1.5
173.9900	18.01	-2.00	147503.020	1.5	204977.590	2.5
173.9915	26.02	-1.46	77075.300	1.0	134549.380	1.0
173.9946	26.01	-6.64	21812.040	1.5	79285.100	2.5
173.9957	27.02	-1.22	72083.300	4.5	129556.000	5.5
173.9976	25.01	-1.66	30523.450	6.0	87995.500	5.0
173.9978	25.03	-5.55	120603.100	4.0	178075.100	3.0
173.9993	25.02	-2.49	137436.700	4.5	194908.200	5.5
173.9995	14.00	-4.47	6298.850	2.0	63770.280	1.0
174.0039	26.02	-3.84	142855.590	4.0	200325.560	4.0
174.0054	23.02	-1.99	98383.530	2.5	155853.000	2.5
174.0077	25.02	-3.97	116580.170	1.5	174048.890	2.5
174.0093	17.02	-1.91	147073.000	3.5	204541.200	2.5
174.0122	25.02	-6.9	121091.080	1.5	178558.300	1.5
174.0154	25.01	-8.8	14781.190	2.0	72247.380	3.0
174.0187	24.01	-2.39	33521.230	3.5	90986.310	3.5
174.0207	23.01	-1.92	18293.870	2.0	75758.290	2.0
174.0211	25.01	-4.14	31661.720	3.0	89126.000	3.0
174.0223	23.01	-2.98	11295.510	0.0	68759.400	1.0
174.0225	26.02	-2.39	89697.520	3.0	147161.360	4.0
174.0228	8.01	-3.60	208392.270	1.5	265856.000	2.5
174.0229	25.02	-1.71	137436.700	4.5	194900.400	5.5
174.0235	28.01	-2.19	58493.210	2.5	115956.710	2.5
174.0274	27.02	-1.58	82920.700	3.5	140382.900	3.5
174.0283	23.01	-4.03	8841.970	3.0	66302.680	3.0
174.0286	28.01	-2.92	58705.950	1.5	116167.760	1.5
174.0299	14.00	-2.35	6298.850	2.0	63760.240	3.0
174.0316	25.02	-2.29	90746.060	5.5	148206.900	5.5
174.0329	24.02	-3.78	71321.800	3.0	128782.200	3.0
174.0336	28.01	-3.39	76402.030	2.5	133862.210	1.5
174.0346	26.02	-2.03	144570.530	3.0	202030.380	3.0
174.0392	26.01	-4.34	42114.790	4.5	99573.110	4.5
174.0455	25.01	-4.34	9472.970	2.0	66929.220	2.0
174.0477	26.02	-2.52	83237.860	3.0	140693.360	3.0
174.0480	27.02	-1.46	82363.300	4.5	139818.700	3.5
174.0501	28.01	-2.06	57420.160	2.5	114874.880	2.5
174.0597	14.00	-2.87	6298.850	2.0	63750.390	1.0
174.0609	26.01	-4.18	42237.050	3.5	99688.200	3.5
174.0624	28.01	-1.90	77332.470	2.5	134783.140	2.5
174.0702	28.02	-2.10	75646.900	4.0	133095.000	3.0
174.0723	28.02	-1.56	97996.300	3.0	155443.700	2.0
174.0736	26.02	-2.10	77102.430	2.0	134549.380	1.0
174.0748	26.02	-2.41	77102.430	2.0	134549.000	3.0
174.0766	23.01	-1.93	18269.490	1.0	75715.450	1.0
174.0774	24.02	.29	97618.300	5.0	155064.000	4.0
174.0785	24.01	-8.56	12032.720	1.5	69478.060	2.5
174.0807	18.01	-4.27	149179.170	3.5	206623.800	3.5
174.0817	26.02	-2.19	82382.870	3.0	139827.170	4.0
174.0920	28.02	-1.60	78657.800	0.0	136098.700	1.0
174.0929	25.02	-4.70	173920.690	1.5	231361.280	2.5
174.0929	25.01	-2.62	36427.890	0.0	93868.500	1.5
174.0944	28.02	-1.24	82194.300	5.0	139634.400	6.0
174.1008	10.03	-3.51	642184.000	1.5	698622.000	1.5
174.1010	26.02	-1.49	139463.360	5.0	196901.270	5.0
174.1017	27.02	-4.03	82920.700	3.5	140358.400	4.5
174.1018	26.02	-4.52	124954.880	1.0	182392.550	2.0
174.1026	25.02	-1.13	138245.090	5.5	195682.500	5.5
174.1056	27.02	-1.77	72270.500	3.5	129706.900	3.5
174.1099	24.03	-1.82	104637.000	3.5	162072.000	3.5
174.1103	25.01	-2.17	31661.720	3.0	89096.560	4.0
174.1111	23.02	-2.26	98062.220	1.5	155496.800	1.5
174.1126	26.01	-5.74	21812.040	1.5	79240.130	1.5
174.1132	29.02	-1.95	63143.600	2.5	120577.500	2.5
174.1143	18.01	-4.61	157233.930	3.5	214667.480	2.5
174.1148	23.02	-2.79	42371.200	1.5	98904.570	2.5
174.1199	26.01	-3.57	21812.040	1.5	79243.730	1.5
174.1215	26.02	-4.70	109570.840	2.0	167002.000	2.0
174.1306	25.01	-3.51	9472.970	2.0	66901.140	2.0
174.1335	11.02	-1.88	406200.900	2.5	463628.100	2.5
174.1336	26.01	-2.25	26932.740	.5	84359.900	1.5
174.1360	18.01	-4.79	147503.020	1.5	204929.400	.5
174.1375	29.02	.44	67016.600	3.5	124442.500	4.5
174.1471	26.01	-4.38	42401.330	1.5	99824.040	2.5
174.1472	14.00	-5.67	6298.850	2.0	63721.530	2.0
174.1473	26.02	-3.45	139463.360	5.0	196886.010	6.0
174.1474	24.01	-6.35	20512.620	2.5	77935.240	2.5
174.1493	11.05	-1.73	872577.000	1.0	929999.000	2.0
174.1506	23.01	-1.88	18293.870	2.0	75715.450	1.0
174.1526	25.01	-1.09	14901.180	1.0	72322.070	0.0
174.1529	25.01	-4.96	9472.970	2.0	66893.790	1.0
174.1549	28.01	-1.39	0.000	2.5	57420.160	2.5
174.1550	28.01	-4.50	55299.650	4.5	112719.750	3.5
174.1570	25.01	-2.48	14901.180	1.0	72320.620	1.0
174.1578	23.02	-2.43	88559.080	1.5	149978.270	2.5
174.1612	23.02	-1.48	98383.530	2.5	155801.600	1.5
174.1642	26.02	-3.16	142908.480	5.0	200325.560	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
174.1647	24.01	-4.79	20518.330	3.5	77935.240	2.5	174.4537	29.01	-4.76	71531.500	3.0	128853.300	2.0
174.1647	25.01	-4.81	14593.820	3.0	72010.750	4.0	174.4537	27.02	-1.31	72270.500	3.5	129592.300	4.5
174.1658	18.02	-1.75	226503.220	3.0	283919.780	3.0	174.4640	25.01	-4.59	33278.390	3.0	90598.800	2.0
174.1661	28.01	-1.76	57420.160	2.5	114836.630	3.5	174.4647	18.01	-2.37	147875.860	2.5	205194.040	1.5
174.1688	14.00	-5.06	6298.850	2.0	63714.400	2.0	174.4648	20.02	-3.76	328588.760	3.0	385906.900	2.0
174.1732	26.02	-3.58	122346.610	3.0	179760.720	3.0	174.4661	25.01	-4.98	43370.370	3.0	100688.100	3.0
174.1804	25.02	-4.91	120974.250	5	178386.000	5	174.4682	20.02	-3.27	325467.670	2.0	382784.700	3.0
174.1815	26.02	-2.65	122346.610	3.0	179757.980	4.0	174.4694	23.01	-4.14	8841.970	3.0	66158.600	4.0
174.1890	24.01	-2.44	33694.470	5.5	91103.360	4.5	174.4706	25.01	-4.86	30679.240	5.0	87995.500	5.0
174.1905	27.02	-3.45	83938.900	3.5	141347.300	4.5	174.4711	9.02	-2.67	387259.280	1.5	444575.350	2.5
174.1909	27.01	-2.30	11651.310	2.0	69059.590	3.0	174.4724	24.01	-9.03	12032.720	1.5	69348.360	1.5
174.1948	24.03	-4.86	175166.000	3.5	232573.000	2.5	174.4748	26.02	-2.26	122346.610	3.0	179661.480	3.0
174.1958	24.01	-7.24	12496.790	4.5	69903.460	3.5	174.4749	9.01	-1.86	182864.400	1.0	240179.220	0.0
174.1963	28.02	2.23	61339.200	4.0	118745.700	3.0	174.4782	26.02	-3.22	131710.790	5.0	189024.530	5.0
174.1989	25.01	-4.97	14901.180	1.0	72306.810	2.0	174.4823	25.02	-4.78	174048.890	2.5	231361.280	2.5
174.1996	27.02	-3.06	72341.900	1.5	129747.300	2.5	174.4837	25.01	-1.39	43370.370	3.0	100682.300	4.0
174.2027	23.01	-1.37	18353.890	3.0	75758.290	2.0	174.4938	26.02	-1.45	76956.790	3.0	134265.420	2.0
174.2051	26.02	-2.10	76956.790	3.0	134360.400	4.0	174.4987	26.01	-4.61	20830.520	2.5	78137.530	3.5
174.2069	25.03	4.62	112882.800	5.0	170285.800	6.0	174.4988	26.02	-2.82	84159.550	4.0	141466.530	3.0
174.2094	23.02	-1.06	98399.420	5	155801.600	1.5	174.5002	23.01	-7.36	36050.100	1.0	57342.590	2.0
174.2102	26.01	-4.27	8846.760	5	66248.670	5	174.5021	12.02	-2.29	478846.100	2.0	536152.000	1.0
174.2150	25.02	-1.61	117063.740	4.5	174464.070	4.5	174.5030	26.02	-4.93	44586.830	5.0	201892.440	5.0
174.2225	26.01	-3.00	8680.470	1.5	66078.340	2.5	174.5045	27.02	-1.01	82920.700	3.5	140225.800	3.5
174.2364	27.02	-4.33	86283.800	4.5	143677.100	3.5	174.5054	23.02	-1.29	98825.190	3.5	156130.000	4.5
174.2372	26.02	-8.42	24940.900	4.0	82333.920	3.0	174.5112	17.02	-3.29	151879.900	1.5	209182.800	1.5
174.2400	26.02	-2.51	83358.880	2.0	140750.980	2.0	174.5142	28.01	-3.60	55417.830	3.5	112719.750	3.5
174.2408	26.02	-2.22	139509.440	5.0	196901.270	5.0	174.5169	26.02	-3.30	131710.790	5.0	189011.840	4.0
174.2414	25.02	-2.89	116851.690	3.5	174243.330	3.5	174.5197	20.02	-2.39	328606.780	2.0	385906.900	2.0
174.2433	24.04	-1.39	171736.000	2.0	229127.000	3.0	174.5229	23.02	-1.94	98383.530	2.5	155682.600	3.5
174.2466	25.02	-1.62	174874.500	4.5	232264.420	3.5	174.5238	26.01	-1.44	15844.710	4.5	73143.480	3.5
174.2497	26.02	-2.95	142312.900	3.0	199701.820	3.0	174.5249	7.00	-1.03	28838.920	5	86137.320	5
174.2505	23.02	-2.57	89457.670	2.5	146846.320	1.5	174.5261	7.00	-1.32	28839.306	1.5	86137.320	5
174.2574	24.01	-8.88	11962.000	5	69348.360	1.5	174.5263	15.00	-3.45	18747.950	1.5	76045.900	2.5
174.2587	26.02	-3.62	128917.510	2.0	186303.440	3.0	174.5274	26.02	-4.39	82382.870	3.0	139680.470	3.0
174.2610	9.02	-4.78	395385.660	2.5	452770.850	3.5	174.5347	14.00	-2.67	77.115	1.0	57372.297	2.0
174.2627	20.02	-2.04	325467.670	2.0	382852.300	2.0	174.5355	25.02	-4.96	121091.080	1.5	178386.000	3.5
174.2679	26.01	-1.83	21308.080	1.5	78690.980	2.5	174.5397	25.02	-3.20	86051.500	2.5	143345.070	3.5
174.2708	26.01	-4.72	16369.390	3.5	73751.340	4.5	174.5414	16.03	-4.13	213717.400	1.5	271010.400	5
174.2719	26.02	-3.25	82382.870	3.0	139764.480	2.0	174.5419	26.00	-6.91	415.932	3.0	57708.760	2.0
174.2720	7.00	-1.33	28838.920	5	86220.480	1.5	174.5456	26.02	-3.17	83161.480	4.0	140453.100	3.0
174.2732	7.00	-4.63	28839.306	1.5	86220.480	1.5	174.5475	25.02	-4.33	121267.320	2.5	178558.300	1.5
174.2737	24.02	-1.87	97683.000	3.0	155064.000	4.0	174.5478	27.02	-1.48	82920.700	3.5	140211.600	2.5
174.2772	28.01	-2.38	14995.570	2.5	72375.420	1.5	174.5486	25.01	-3.06	49882.150	4.0	107172.800	3.0
174.2835	26.02	-4.56	89783.590	4.0	147161.360	4.0	174.5489	23.01	-3.50	12621.570	5.0	69912.100	4.0
174.2857	28.01	-2.93	58493.210	2.5	115870.280	2.5	174.5505	10.03	-4.94	586685.000	1.5	643975.000	2.5
174.2871	10.01	-2.86	246597.710	5	303974.290	1.5	174.5545	25.02	-3.59	174464.070	4.5	231752.760	5.5
174.2872	26.02	-4.20	139509.440	5.0	196886.010	6.0	174.5545	27.02	-1.44	76791.100	1.5	134079.800	1.5
174.2882	25.01	-5.00	49517.580	5.0	106893.800	5.0	174.5557	9.01	-1.38	182864.400	1.0	240152.710	1.0
174.2915	26.02	-2.60	84671.870	3.0	142047.000	4.0	174.5612	24.02	-1.35	101745.300	3.0	159031.800	2.0
174.2947	17.02	-2.24	146749.900	2.5	204124.000	1.5	174.5624	25.02	-4.98	91948.300	3.5	149234.400	2.5
174.2992	24.02	-2.07	96713.100	3.0	154085.700	3.0	174.5635	26.02	-4.53	66464.640	3.0	123750.390	3.0
174.3018	8.01	-3.03	208484.240	2.5	265856.000	2.5	174.5646	14.00	-3.57	6298.850	2.0	63584.220	1.0
174.3077	25.02	-4.61	138312.700	4.5	195682.500	5.5	174.5661	26.01	-3.06	3117.480	1.5	60402.380	2.5
174.3113	18.01	-3.62	132737.610	4.5	190106.230	1.5	174.5662	25.01	-4.97	49465.130	3.0	106750.000	2.0
174.3157	24.01	-2.64	33619.130	4.5	90986.310	3.5	174.5673	27.02	-4.34	77411.600	5.5	134696.100	5.5
174.3160	26.02	-3.56	125443.580	4.0	182810.660	5.0	174.5683	26.02	-3.43	122346.610	3.0	179630.770	4.0
174.3164	23.01	-6.47	12545.150	4.0	69912.100	4.0	174.5703	17.01	-3.27	128621.900	1.0	185905.400	1.0
174.3221	25.01	-2.04	31760.930	2.0	89126.000	3.0	174.5719	10.04	-2.03	741730.000	1.0	799013.000	1.0
174.3258	26.01	-4.92	41968.110	5.5	99331.950	4.5	174.5720	23.01	-2.69	11514.760	1.0	68797.700	2.0
174.3284	10.04	-1.50	640868.000	2.0	698231.000	1.0	174.5720	25.01	-4.11	49889.860	3.0	107172.800	3.0
174.3288	9.02	-3.84	395385.660	2.5	452748.540	2.5	174.5851	23.02	-4.13	88944.380	2.5	146223.050	3.5
174.3293	24.02	-3.62	56992.200	3.0	114354.900	4.0	174.5858	20.02	-2.46	328588.760	3.0	385867.200	3.0
174.3305	27.02	-4.66	78927.800	3.5	136290.100	3.5	174.5920	19.02	-4.65	246625.600	1.5	303902.000	1.5
174.3351	25.00	-5.09	0.000	2.5	57360.780	1.5	174.5929	26.02	-3.26	139625.170	4.0	196901.270	5.0
174.3351	25.01	-1.61	14959.840	0.0	72320.620	1.0	174.5932	24.02	-1.37	102099.600	4.0	159375.600	3.0
174.3351	23.02	-4.60	101785.810	1.5	159146.600	2.5	174.5947	25.01	-2.60	52718.800	0.0	109994.300	1.0
174.3375	24.02	-4.35	97097.100	4.0	154457.100	4.0	174.5978	26.02	-3.39	121919.740	3.0	179194.220	4.0
174.3399	27.01	-1.57	4028.900	4.0	61388.100	4.0	174.6001	18.02	-3.28	226646.060	4.0	283919.780	3.0
174.3431	24.01	-5.78	12148.000	2.5	69506.160	3.5	174.6023	25.04	-2.96	184633.000	3.5	241906.000	2.5
174.3466	24.02	-2.42	115843.500	6.0	173200.500	5.0	174.6027	23.01	-3.97	19112.930	4.0	76385.800	3.0
174.3474	25.02	-4.22	116692.140	2.5	174048.890	2.5	174.6091	23.02	-3.11	99073.230	5	156344.000	1.5
174.3482	24.01	-5.69	19631.280	1.5	76987.780	2.5	174.6127	26.02	-2.33	82494.880	1.0	139764.480	2.0
174.3482	23.01	-3.89	8640.210	2.0	65996.700	3.0	174.6129	26.02	-2.44	86847.110	2.0	144116.640	3.0
174.3494	28.01	-3.92	70635.460	2.5	127991.560	3.5	174.6129	26.02	-2.50	82410.940	2.0	139680.470	3.0
174.3518	25.01	-3.17	36364.300	1.0	93719.600	0.0	174.6140	25.01	-4.26	37811.570	1.0	95080.760	1.0
174.3572	26.02	-2.54	82410.940	2.0	139764.480	2.0	174.6140	26.01	-4.50	36126.410	1.5	93395.600	2.5
174.3578	26.01	-4.29	42334.860	2.5	95688.200	3.5	174.6162	28.01	-3.08	55417.830	3.5	112686.300	2.5
174.3640	26.02	-4.02	128917.510	2.0	18								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
174.6942	17.01	-4.11	128662.500	2.0	185905.400	1.0
174.6944	26.01	-1.87	18886.750	.5	76129.580	1.5
174.6960	26.02	-2.27	82382.870	3.0	139625.170	4.0
174.6970	26.02	-1.96	93412.930	2.0	150654.900	3.0
174.6979	10.01	-4.28	249445.990	2.5	306687.670	3.5
174.6990	28.01	-2.28	9330.040	3.5	66571.340	2.5
174.6990	10.01	-4.94	249445.990	2.5	306687.290	2.5
174.6996	23.02	-3.50	42267.400	2.5	99508.500	1.5
174.7000	24.03	-0.58	104265.000	2.5	161506.000	2.5
174.7012	28.02	.26	54657.900	4.0	111898.500	4.0
174.7092	18.01	-3.93	157673.320	2.5	214911.300	2.5
174.7106	24.00	-8.60	0.000	3.0	57237.500	4.0
174.7112	26.02	-3.87	121941.290	4.0	179178.620	3.0
174.7140	17.02	-3.77	151946.400	.5	209182.800	1.5
174.7143	24.02	.72	97618.300	5.0	154854.600	6.0
174.7153	23.01	-8.70	106.630	2.0	57342.590	2.0
174.7161	27.01	-3.32	5204.500	1.0	62440.200	1.0
174.7190	26.01	-4.31	36252.960	2.5	93487.710	3.5
174.7258	26.02	-0.72	66464.640	3.0	123697.180	2.0
174.7290	27.01	-1.60	10708.100	3.0	67939.600	2.0
174.7296	24.02	.48	97618.300	5.0	154849.600	5.0
174.7302	23.02	-1.42	99440.100	2.5	156671.200	2.5
174.7332	9.02	-1.61	387259.280	1.5	444489.400	2.5
174.7380	25.02	-2.74	116692.140	2.5	173920.690	1.5
174.7392	9.01	-1.16	182864.400	1.0	240092.550	2.0
174.7405	28.01	-3.03	13550.390	3.5	70778.120	3.5
174.7410	23.02	-3.00	87544.660	4.5	144772.020	3.5
174.7413	26.02	-1.77	66522.950	2.0	123750.390	3.0
174.7414	14.00	-2.39	223.157	2.0	57450.580	3.0
174.7421	30.02	-2.58	237047.800	2.0	294275.000	3.0
174.7464	26.01	-3.15	20516.980	2.5	77742.780	2.5
174.7484	26.00	-6.71	415.932	3.0	57641.060	3.0
174.7509	18.01	-4.59	155708.020	.5	212932.320	1.5
174.7549	11.05	-0.10	873287.000	2.0	930510.000	3.0
174.7555	12.02	.29	475502.900	1.0	532725.700	2.0
174.7671	28.02	.27	86846.200	2.0	143865.200	3.0
174.7703	10.01	-3.92	281332.550	.5	338550.510	.5
174.7727	26.01	-4.71	42114.790	4.5	99331.950	4.5
174.7786	26.02	-2.83	83237.860	3.0	140453.100	3.0
174.7794	12.00	-2.11	0.000	0.0	57214.992	1.0
174.7840	25.01	-3.34	9472.970	2.0	66686.450	3.0
174.7841	28.01	-4.19	70778.120	3.5	127991.560	3.5
174.7851	9.02	-2.11	355981.900	1.5	413195.000	2.5
174.7877	26.02	-2.33	90423.680	2.0	147635.950	3.0
174.7886	28.01	-3.21	76402.030	2.5	133613.990	1.5
174.7888	27.01	-0.90	4028.900	4.0	61240.800	3.0
174.7917	9.02	-0.73	387259.280	1.5	444470.240	1.5
174.7922	25.01	-1.47	43484.500	2.0	100695.300	1.0
174.7926	11.01	-1.58	297639.340	2.0	354850.000	1.0
174.7989	30.02	-3.89	236560.000	0.0	293768.600	1.0
174.8004	25.01	-0.88	43484.500	2.0	100692.600	2.0
174.8025	9.02	-2.96	387367.920	2.5	444575.350	2.5
174.8066	23.01	-3.86	9097.810	4.0	66303.880	3.0
174.8142	25.01	-3.81	9472.970	2.0	66676.560	2.0
174.8142	25.01	-0.68	43484.500	2.0	100688.100	2.0
174.8154	18.01	-1.49	147875.860	2.5	205079.070	2.5
174.8169	17.01	-2.93	128662.500	2.0	185865.200	3.0
174.8174	26.02	-0.90	63494.560	2.0	120697.100	1.0
174.8185	26.01	-5.77	12303.980	3.5	69506.160	3.5
174.8185	26.01	-3.81	361264.410	1.5	93328.600	1.5
174.8212	27.02	-2.35	78927.800	3.5	136129.100	2.5
174.8220	24.01	-5.06	20512.620	2.5	77713.660	1.5
174.8241	24.01	-8.30	12148.000	2.5	69348.360	1.5
174.8259	25.01	-2.50	30795.750	4.0	87995.500	5.0
174.8282	28.01	-0.43	1506.940	1.5	58705.950	1.5
174.8294	28.01	-4.43	56424.490	1.5	113623.100	.5
174.8328	29.02	-2.33	140200.900	1.5	197398.400	2.5
174.8337	25.02	-2.12	116851.690	3.5	174048.890	2.5
174.8343	11.05	-1.02	872577.000	1.0	929774.000	1.0
174.8353	27.01	-5.56	25147.200	4.0	82343.900	4.0
174.8392	23.02	-1.30	88944.380	2.5	146139.800	2.5
174.8426	26.01	-5.50	12303.980	3.5	69498.270	4.5
174.8450	26.02	-0.81	89697.520	3.0	146891.040	3.0
174.8511	26.02	-9.59	25142.400	3.0	82333.920	3.0
174.8528	26.02	-1.58	90423.680	2.0	147614.650	2.0
174.8554	26.02	-2.17	77075.300	1.0	134265.420	2.0
174.8564	24.01	-6.36	19798.010	2.5	76987.780	2.5
174.8616	14.00	-2.76	6298.850	2.0	63486.930	1.0
174.8657	20.02	-1.09	328588.760	3.0	385775.500	4.0
174.8661	24.00	-9.13	0.000	3.0	57186.600	3.0
174.8680	25.02	-1.53	88880.080	2.5	146066.070	1.5
174.8693	23.02	-2.25	98383.530	2.5	155569.100	2.5
174.8735	29.02	-4.03	139260.700	.5	196444.900	1.5
174.8736	9.02	-1.59	387367.920	2.5	444552.080	3.5
174.8790	27.02	-2.93	73726.600	2.5	130909.000	1.5
174.8851	24.02	-1.70	96713.100	3.0	153893.500	2.0
174.8852	18.01	-2.65	147875.860	2.5	205056.220	1.5
174.8876	25.02	-1.71	117063.740	4.5	174243.330	3.5
174.8889	26.01	-1.63	21308.080	1.5	78487.250	1.5
174.8921	12.02	.49	474655.000	2.0	531833.100	3.0
174.8986	23.01	-5.40	8640.210	2.0	65816.200	1.0
174.9040	26.02	-1.21	66522.950	2.0	123697.180	2.0
174.9044	24.01	-7.69	12303.980	3.5	69478.060	2.5
174.9056	25.01	-4.89	30684.810	1.0	87858.510	2.0
174.9058	18.01	-2.75	132481.140	2.5	189654.780	2.5
174.9071	24.02	-4.46	71676.200	4.0	128849.400	4.0
174.9087	23.02	-3.08	42267.400	2.5	99440.100	2.5
174.9091	25.01	-3.04	34910.430	4.0	92083.000	3.0
174.9114	25.01	-4.10	9472.970	2.0	66644.780	1.0
174.9120	26.01	-1.42	15844.710	4.5	73016.330	3.5
174.9126	30.02	-3.44	221052.200	4.0	278223.600	3.0
174.9166	25.02	-1.05	138245.090	5.5	195415.200	4.5
174.9203	28.02	-1.17	85834.800	5.0	143003.700	4.0
174.9205	20.02	-2.49	328588.760	3.0	385757.600	3.0
174.9269	26.02	-3.57	142535.070	2.0	199701.820	3.0
174.9304	11.02	.07	414281.000	2.5	471446.600	1.5
174.9343	28.01	-2.31	58705.950	1.5	115870.280	2.5
174.9344	24.02	-0.40	96921.400	2.0	154085.700	3.0
174.9384	26.02	-1.62	77102.430	2.0	134265.420	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
174.9393	23.02	-1.95	99508.500	1.5	156671.200	2.5
174.9399	23.02	-1.55	99181.500	1.5	156344.000	1.5
174.9408	17.02	-3.89	151879.900	1.5	209042.100	.5
174.9527	25.02	-2.52	86051.500	2.5	143209.800	2.5
174.9588	23.02	-1.59	98825.190	3.5	155981.500	3.5
174.9636	23.01	-3.29	8841.970	3.0	65996.700	3.0
174.9644	30.02	-.92	83500.300	2.0	140654.800	3.0
174.9644	26.01	-4.00	7955.240	3.5	65109.710	3.5
174.9689	28.02	-3.05	76237.800	3.0	133390.800	3.0
174.9709	26.02	-1.98	90483.590	3.0	147635.950	3.0
174.9748	27.02	-1.20	70934.100	2.5	128085.200	2.5
174.9751	11.05	-2.38	996734.000	3.0	1053885.000	2.0
174.9756	20.02	-4.32	328606.780	2.0	385757.600	3.0
174.9781	10.03	-3.72	642472.000	2.5	699622.000	1.5
174.9781	10.03	-3.43	642472.000	2.5	699622.000	2.5
174.9808	14.00	-4.40	223.157	2.0	57372.297	2.0
174.9902	10.01	-4.54	219130.780	2.5	276276.850	1.5
174.9924	25.01	-.99	30795.750	4.0	87941.080	4.0
174.9955	25.02	-4.35	174243.330	3.5	231387.660	3.5
174.9993	17.01	-3.31	128621.900	1.0	185765.000	2.0
175.0018	26.02	-1.16	93512.640	4.0	150654.900	3.0
175.0032	27.01	-9.90	27902.500	4.0	85044.300	3.0
175.0072	30.02	-2.49	237047.800	2.0	294188.300	2.0
175.0140	25.01	-1.00	43557.030	1.0	100695.300	1.0
175.0157	28.01	-4.66	79823.030	3.5	136960.750	2.5
175.0170	23.02	-1.98	42371.200	1.5	99508.500	1.5
175.0187	26.02	-1.84	87901.870	3.0	145038.610	3.0
175.0223	25.01	-1.10	43557.030	1.0	100692.600	2.0
175.0228	17.01	-3.21	128729.800	3.0	185865.200	3.0
175.0241	24.02	-2.14	43286.400	4.0	100421.400	5.0
175.0280	23.01	-7.56	208.890	3.0	57342.590	2.0
175.0309	26.02	-.95	90423.680	2.0	147556.450	1.0
175.0321	26.02	-2.93	122628.340	2.0	179760.720	3.0
175.0329	23.02	.24	89417.500	3.5	146549.620	4.5
175.0359	26.02	-3.70	122628.340	2.0	179759.490	2.0
175.0361	26.02	-.98	90483.590	3.0	147614.650	2.0
175.0388	29.02	.27	68963.600	2.5	126093.800	3.5
175.0426	23.02	-4.94	28746.800	2.5	85875.740	3.5
175.0455	25.02	-2.69	137908.200	5.5	195036.200	6.5
175.0455	25.02	-1.81	137908.200	5.5	195036.200	6.5
175.0523	15.02	-5.58	0.000	.5	57125.800	1.5</

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
175.2050	10.04	-2.50	741730.000	1.0	798806.000	2.0	175.4827	25.01	-6.98	29951.120	1.0	86936.800	2.0
175.2052	8.01	-4.46	208392.270	1.5	265468.200	1.5	175.4827	24.00	-9.76	0.000	3.0	56985.670	3.0
175.2052	8.01	-3.66	208392.270	1.5	265468.200	1.5	175.4829	11.02	-4.42	411963.900	1.5	468949.500	1.5
175.2053	30.02	-4.32	237047.800	2.0	294123.700	3.0	175.4872	28.01	-3.81	56424.490	1.5	113408.710	1.5
175.2061	26.01	-3.40	36252.960	2.5	93328.600	1.5	175.4880	8.01	-4.69	208484.240	2.5	268468.200	1.5
175.2074	18.01	-3.36	147875.860	2.5	204951.090	3.5	175.4900	28.02	-1.99	55952.000	2.0	112935.300	3.0
175.2108	26.02	-2.53	139827.170	4.0	196901.270	5.0	175.4904	26.02	-2.03	89907.850	4.0	146891.040	3.0
175.2136	27.02	-1.53	77622.900	4.5	134696.100	5.5	175.4915	28.01	-3.22	56424.490	1.5	113407.310	2.5
175.2145	25.01	-4.22	27570.950	5.0	84643.860	6.0	175.4993	11.02	-0.03	411548.200	2.5	468528.500	1.5
175.2185	23.02	-2.22	102075.000	2.5	159146.600	2.5	175.5005	29.02	-0.66	85446.400	1.5	142426.300	2.5
175.2268	23.02	-3.18	42371.200	1.5	99440.100	2.5	175.5030	26.01	-5.55	21711.890	3.5	78690.980	2.5
175.2305	25.01	-5.04	29869.110	2.0	86936.800	2.0	175.5049	25.01	-7.75	29919.220	2.0	86897.700	3.0
175.2338	26.02	-2.09	87901.870	3.0	144968.500	4.0	175.5090	25.01	-3.35	53017.160	1.0	109994.300	1.0
175.2345	18.01	-2.18	149179.170	3.5	206245.570	3.5	175.5106	28.02	-0.90	82277.000	1.0	139253.600	2.0
175.2354	11.02	-3.78	406562.000	1.5	463628.100	2.5	175.5115	26.02	-4.44	149285.000	3.0	206261.330	4.0
175.2360	29.02	-3.50	85446.400	1.5	142512.300	1.5	175.5126	26.02	-4.51	124854.040	3.0	181830.020	3.0
175.2368	15.00	-2.06	18747.950	1.5	75813.600	1.5	175.5128	26.02	-3.34	142908.480	5.0	199884.390	5.0
175.2410	25.01	-1.11	14325.860	4.0	71390.140	3.0	175.5152	26.02	-2.81	125443.580	4.0	182418.700	4.0
175.2428	28.02	-0.08	62606.300	3.0	119670.000	2.0	175.5200	26.02	-4.78	167085.120	3.0	224058.700	4.0
175.2437	27.02	-2.19	46438.300	4.5	103501.700	3.5	175.5228	25.02	-1.49	137935.530	4.5	194908.200	5.5
175.2483	26.02	-3.20	144968.500	4.0	202030.380	3.0	175.5243	28.01	-1.37	53601.190	1.5	110573.360	2.5
175.2517	23.01	-3.10	9097.810	4.0	66158.600	4.0	175.5245	24.02	-1.03	96921.400	2.0	153893.500	2.0
175.2617	28.01	-4.95	79823.030	3.5	136880.560	4.5	175.5260	26.02	-3.88	124854.040	3.0	181825.670	4.0
175.2621	14.00	-4.32	6298.850	2.0	63356.240	2.0	175.5317	18.01	-2.95	149179.170	3.5	206148.940	3.5
175.2633	10.03	-3.84	586918.000	2.5	643975.000	2.5	175.5408	18.02	-3.53	174375.000	2.0	231341.800	2.0
175.2649	11.02	-2.22	406200.900	2.5	463257.400	2.5	175.5427	13.03	-0.77	624720.500	1.0	681686.700	0.0
175.2692	26.02	-2.83	139846.180	6.0	196901.270	5.0	175.5435	9.02	-1.05	387523.470	3.5	444894.900	2.5
175.2694	9.02	-1.70	387523.470	3.5	444578.510	4.5	175.5452	24.02	-0.96	97120.300	3.0	154085.700	3.0
175.2707	26.02	-3.27	122628.340	2.0	179682.940	1.0	175.5454	26.02	-2.98	125443.580	4.0	182408.910	3.0
175.2719	23.01	-2.05	19166.190	1.0	76220.400	2.0	175.5468	25.02	-2.83	137935.530	4.5	194900.400	5.5
175.2775	25.02	-0.88	138362.800	3.5	195415.200	4.5	175.5500	3.01	-1.03	501816.000	0.0	558779.828	0.0
175.2791	9.02	-4.10	387523.470	3.5	444575.350	2.5	175.5507	24.01	-0.65	20024.180	3.5	76987.780	2.5
175.2807	25.01	-2.39	53017.160	1.0	110068.500	2.0	175.5579	26.02	-2.18	66591.680	1.0	123552.950	1.0
175.2860	26.02	-4.56	167002.000	2.0	224051.630	3.0	175.5649	24.03	-0.20	105113.000	4.5	162072.000	3.5
175.2870	26.01	-3.68	13474.430	2.5	70523.730	3.5	175.5693	10.02	-2.05	353177.160	2.0	410134.720	1.0
175.2893	26.02	-2.63	122628.340	2.0	179676.890	2.0	175.5702	9.02	-4.31	384358.540	1.5	441315.800	1.5
175.2899	28.01	-3.65	77332.470	2.5	134380.820	3.5	175.5732	24.02	-4.47	96773.500	1.0	153729.800	1.0
175.2913	28.02	-0.01	78303.100	2.0	135351.000	2.0	175.5759	18.01	-3.52	157233.930	3.5	214189.360	4.5
175.2926	25.01	-5.80	29889.310	3.0	86936.800	2.0	175.5760	28.02	-1.95	79143.300	2.0	136098.700	1.0
175.2934	27.02	-4.17	73861.800	1.5	130909.000	1.5	175.5819	18.01	-1.00	149179.170	3.5	206132.660	4.5
175.2988	10.01	-3.67	246192.450	2.5	303237.910	1.5	175.5826	15.00	-1.48	18722.650	1.5	75675.900	1.5
175.2999	28.02	-0.62	75123.800	5.0	132168.900	6.0	175.5847	26.01	-1.65	26352.800	4.5	83305.370	3.5
175.3053	23.01	-4.34	8841.970	3.0	65885.300	2.0	175.5889	18.02	-2.76	225147.930	2.0	282099.140	2.0
175.3099	28.01	-4.73	76402.030	2.5	133443.890	2.5	175.5893	25.02	-3.26	174436.950	2.5	231387.660	3.5
175.3099	14.00	-2.95	6298.850	2.0	63340.700	3.0	175.5894	26.02	-2.71	144968.500	4.0	201919.530	4.0
175.3101	25.01	-6.43	29919.220	2.0	86961.000	1.0	175.5944	26.02	-3.99	122944.150	4.0	179893.560	5.0
175.3150	28.02	-0.27	121412.200	2.0	178452.400	3.0	175.5950	26.02	-3.32	142855.590	4.0	199804.810	4.0
175.3150	28.02	-0.57	121412.200	2.0	178452.400	2.0	175.5976	27.02	-0.41	46438.300	4.5	103386.700	4.5
175.3161	26.02	-1.42	139846.180	6.0	196886.010	6.0	175.5978	23.01	-3.72	8841.970	3.0	65790.280	4.0
175.3179	8.01	-4.22	208392.270	1.5	265431.500	2.5	175.6011	8.01	-4.68	208484.240	2.5	265431.500	2.5
175.3183	28.01	-2.34	73903.250	1.5	130942.360	1.5	175.6039	23.02	-0.65	89193.470	1.5	146139.800	2.5
175.3214	29.01	-1.57	71531.500	3.0	128569.600	2.0	175.6130	25.01	-4.74	32856.950	3.0	89800.340	4.0
175.3217	10.04	-2.14	741975.000	2.0	799013.000	1.0	175.6170	28.01	-1.30	52205.950	3.5	109148.050	4.5
175.3256	23.01	-2.42	11908.270	2.0	68945.000	3.0	175.6198	18.01	-3.95	149179.170	3.5	206120.350	2.5
175.3282	28.01	-2.92	56371.410	3.5	113407.310	2.5	175.6209	25.01	-2.64	53017.160	1.0	109958.000	0.0
175.3291	29.01	-1.55	72724.000	2.0	129759.600	1.0	175.6306	27.02	-2.41	73861.800	1.5	130799.500	1.5
175.3298	25.01	-3.33	35004.430	3.0	92039.800	2.0	175.6317	10.02	-1.76	353197.400	1.0	410134.720	1.0
175.3300	26.02	-3.68	139846.180	6.0	196881.470	7.0	175.6325	26.00	-6.02	704.003	2.0	57641.060	3.0
175.3303	17.01	-4.24	128729.800	3.0	185765.000	2.0	175.6349	26.02	-3.62	125443.580	4.0	182379.860	5.0
175.3343	23.02	-0.20	88944.380	2.5	145978.270	2.5	175.6425	18.01	-2.79	132481.140	2.5	189414.960	3.5
175.3352	24.00	-0.60	0.000	3.0	57033.600	4.0	175.6457	24.02	-1.70	57422.100	4.0	114354.900	4.0
175.3367	26.02	-3.44	122628.340	2.0	179661.480	3.0	175.6464	26.02	-4.47	122944.150	4.0	179876.710	4.0
175.3377	28.02	-0.01	75123.800	5.0	132156.600	4.0	175.6469	27.01	-3.50	28111.900	2.0	85044.300	3.0
175.3440	28.01	-4.91	10663.890	1.5	67694.640	2.5	175.6484	26.02	-3.19	132079.910	3.0	189011.840	4.0
175.3463	26.02	-0.71	66522.950	2.0	123552.950	1.0	175.6507	26.02	-4.00	122829.550	3.0	179760.720	3.0
175.3464	26.01	-4.23	42658.230	3.5	99680.200	3.5	175.6548	25.01	-4.57	49820.160	2.0	106750.000	2.0
175.3465	26.01	-4.40	21812.040	1.5	78841.970	1.5	175.6592	26.02	-3.38	122829.550	3.0	179757.980	4.0
175.3474	12.01	-1.15	35760.880	1.5	92790.510	1.5	175.6606	15.00	-1.42	18747.950	1.5	75675.900	1.5
175.3490	26.02	-4.96	84369.920	2.0	141399.040	2.0	175.6609	18.01	-2.12	134241.650	2.5	191169.520	1.5
175.3500	26.02	-3.61	142855.590	4.0	199884.390	5.0	175.6631	26.02	-2.27	109570.840	2.0	166498.000	3.0
175.3506	25.01	-6.06	29869.110	2.0	86897.700	3.0	175.6663	26.02	-3.49	124903.920	2.0	181830.020	3.0
175.3506	9.02	-0.33	387523.470	3.5	444552.080	3.5	175.6705	26.02	-4.33	124903.920	2.0	181828.660	2.5
175.3513	25.02	-3.70	174332.910	1.5	231361.280	2.5	175.6707	25.02	-4.04	174436.590	2.5	231361.280	2.5
175.3530	23.02	-1.48	98825.190	3.5	155853.000	2.5	175.6730	26.02	-3.34	144968.500	4.0	201892.440	5.0
175.3543	29.01	-3.88	71531.500	3.0	128558.900	3.0	175.6794	25.01	-1.82	30795.750	4.0	87717.620	3.0
175.3545	9.02	-4.94	384358.540	1.5	441385.880	1.5	175.6836	28.02	-1.80	76237.800	3.0	133158.300	3.0
175.3644	18.01	-3.02	132630.650	1.5	189654.780	2.5	175.6836	10.01	-1.59	246597.710	1.5	303518.210	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
175.7880	12.02	-0.88	479265.300	0.0	536152.000	1.0	176.0560	28.02	-0.04	63472.600	2.0	120272.700	1.0
175.7911	28.02	.11	121566.700	1.0	178452.400	2.0	176.0562	9.02	-3.05	384358.540	.5	441158.600	1.5
175.7911	15.00	-3.27	11360.800	1.5	68246.500	2.5	176.0585	29.02	-1.33	62065.000	3.5	118864.300	3.5
175.7945	24.02	.21	101443.700	2.0	158328.300	2.0	176.0597	27.01	-5.80	24267.800	1.0	81066.700	0.0
175.8047	25.01	-3.68	27546.900	6.0	84428.210	5.0	176.0610	14.00	-3.78	6298.850	2.0	63097.360	1.0
175.8059	26.02	-4.20	145038.610	3.0	201919.530	4.0	176.0615	18.01	-4.02	145668.800	1.5	202467.140	1.5
175.8106	10.01	-2.25	246192.450	2.5	303071.840	2.5	176.0620	9.02	-1.78	387259.280	1.5	444057.440	1.5
175.8120	26.01	-4.34	21812.040	1.5	78690.980	2.5	176.0643	10.01	-4.27	249445.990	2.5	306243.420	2.5
175.8137	24.02	-2.95	101745.300	3.0	158623.700	4.0	176.0652	9.02	-2.40	387259.280	1.5	444056.420	.5
175.8141	25.02	-2.84	174874.500	4.5	231752.760	5.5	176.0677	25.01	-1.26	14593.820	3.0	71390.140	3.0
175.8157	23.02	-1.26	88944.380	2.5	145822.110	1.5	176.0729	26.02	-3.14	84671.870	3.0	141466.530	3.0
175.8187	26.01	-4.15	7955.240	3.5	64832.000	4.5	176.0732	14.00	-6.89	6298.850	2.0	63093.410	2.0
175.8216	28.01	-1.78	77332.470	2.5	134208.300	2.5	176.0790	18.02	-2.28	225155.180	1.0	281947.880	0.0
175.8222	26.02	-4.55	132079.910	3.0	188955.560	3.0	176.0839	25.02	-1.59	138245.090	5.5	195036.200	6.5
175.8226	18.01	-4.77	145668.800	1.5	202544.320	2.5	176.0839	25.02	-2.79	138245.090	5.5	195036.200	6.5
175.8269	8.01	-4.04	208346.170	.5	265220.300	1.5	176.1001	11.02	.22	410987.900	3.5	467773.800	2.5
175.8279	26.02	-3.53	124954.880	1.0	181828.660	2.0	176.1035	23.02	-4.46	89193.470	1.5	145978.270	2.5
175.8393	15.00	-4.04	11376.400	2.5	68246.500	2.5	176.1045	25.01	-2.36	30795.750	4.0	87580.230	4.0
175.8427	24.03	-2.20	104637.000	3.5	161506.000	2.5	176.1081	26.00	-4.63	0.000	4.0	56783.306	3.0
175.8455	28.02	-5.56	78482.900	1.0	135351.000	2.0	176.1140	24.02	-3.21	117145.200	5.0	173926.600	6.0
175.8471	27.02	-1.36	73540.200	3.5	130407.800	2.5	176.1152	29.02	-1.06	68963.600	2.5	125744.600	1.5
175.8501	23.02	-2.21	99804.570	2.5	156671.200	2.5	176.1161	26.02	-3.52	125637.980	3.0	182418.700	4.0
175.8555	10.01	-1.49	246415.040	1.5	303279.910	2.5	176.1196	24.02	-0.57	97306.100	2.0	154085.700	3.0
175.8557	27.02	-1.22	79425.300	2.5	136290.100	3.5	176.1244	26.02	-4.47	122898.840	2.0	179676.890	2.0
175.8574	26.02	-1.44	66591.680	1.0	123455.920	0.0	176.1252	24.02	-2.33	43321.700	3.0	100099.500	4.0
175.8582	22.01	-1.53	12758.150	2.5	69622.150	2.5	176.1270	23.02	-3.17	28746.800	2.5	85524.000	2.5
175.8601	10.01	-4.22	219648.440	1.5	276511.820	.5	176.1273	25.02	-3.70	174975.650	5.5	231752.760	5.5
175.8647	26.02	-4.23	122898.840	2.0	179760.720	3.0	176.1331	28.01	-2.86	14995.570	2.5	171770.830	2.5
175.8674	28.01	-1.21	70358.940	4.5	127219.970	3.5	176.1349	26.02	-3.44	125637.980	3.0	182412.650	4.0
175.8701	25.01	-3.64	49889.860	3.0	106750.900	1.0	176.1363	27.02	-0.72	82363.300	4.5	139137.500	5.5
175.8712	16.02	-4.41	27159.100	0.0	84018.900	2.0	176.1367	26.01	-0.30	16369.390	3.5	73143.480	3.5
175.8726	26.02	-0.51	25142.400	3.0	82001.730	2.0	176.1367	24.02	-2.11	97683.000	3.0	154457.100	4.0
175.8786	23.02	-2.02	98825.190	3.5	155682.600	3.5	176.1394	24.02	-0.72	97120.300	3.0	153893.500	2.0
175.8790	25.01	-3.99	27570.950	5.0	84428.210	5.0	176.1423	26.02	-2.81	143883.740	5.0	200656.020	6.0
175.8792	28.02	-3.99	76237.800	3.0	133095.000	3.0	176.1430	9.02	-1.89	356371.820	2.5	413143.860	3.5
175.8808	28.01	-4.83	72985.650	1.5	129842.330	2.5	176.1436	26.02	-4.23	125672.830	2.0	182444.700	3.0
175.8865	24.01	-5.07	20024.180	3.5	76879.030	3.5	176.1465	26.02	-2.92	125637.980	3.0	182408.910	3.0
175.8943	18.02	-2.26	225147.930	2.0	282000.260	1.0	176.1472	18.01	-2.05	134241.650	2.5	191012.350	1.5
175.8963	9.02	-1.12	387726.840	4.5	444578.510	4.5	176.1537	10.01	-3.54	246192.450	2.5	302961.070	1.5
175.8980	23.01	-4.04	11908.270	2.0	68759.400	1.0	176.1563	18.02	-2.65	186657.200	3.0	243424.970	3.0
175.8996	26.02	-2.04	132104.940	2.0	188955.560	3.0	176.1592	25.02	-1.94	86578.240	3.5	143345.070	3.5
175.9064	27.02	-1.98	83938.900	3.5	140787.300	2.5	176.1596	26.02	-2.50	83429.610	6.0	140196.330	7.0
175.9089	26.02	-4.74	122346.610	3.0	179194.220	4.0	176.1608	28.01	-4.57	79823.030	3.5	136589.350	3.5
175.9132	26.02	-3.72	142855.590	4.0	199701.820	3.0	176.1627	15.00	.04	11360.800	1.5	68126.500	.5
175.9145	27.02	-0.68	83799.600	2.5	140645.400	3.5	176.1637	23.02	-0.36	89457.670	2.5	146223.050	3.5
175.9167	18.02	-2.80	225155.180	1.0	282000.260	1.0	176.1699	25.02	-2.86	88880.080	2.5	154643.450	2.5
175.9172	25.01	-4.56	27583.300	4.0	84428.210	5.0	176.1720	11.02	-0.54	406200.900	2.5	462963.600	1.5
175.9218	26.02	-1.63	84159.550	4.0	141002.990	4.0	176.1722	26.02	-3.83	122898.840	2.0	179661.480	3.0
175.9237	25.01	-3.21	44745.460	2.0	101588.300	3.0	176.1730	7.02	-1.26	330238.400	1.5	387000.800	2.5
175.9240	26.02	-2.77	125637.980	3.0	182480.720	2.0	176.1737	56.01	-3.35	4873.850	0.0	61636.011	0.0
175.9327	26.02	-3.21	122843.030	1.0	179682.940	1.0	176.1742	12.02	-3.75	477435.700	2.0	534197.700	1.0
175.9362	24.02	-0.94	97618.300	5.0	154457.100	4.0	176.1746	26.02	-1.81	132262.660	6.0	189024.530	5.0
175.9439	26.01	-5.91	22409.820	.5	79246.130	1.5	176.1755	26.02	-4.26	129221.370	1.0	179682.940	1.0
175.9464	23.02	-0.33	99508.500	1.5	156344.000	1.5	176.1773	24.04	-0.78	171736.000	2.0	228497.000	2.0
175.9513	26.01	-4.77	22409.820	.5	79246.130	1.5	176.1877	24.01	-5.24	20512.750	5.5	77270.400	4.5
175.9514	26.02	-3.51	122843.030	1.0	179676.890	2.0	176.1990	10.03	-4.33	586918.000	2.5	643672.000	1.5
175.9574	26.02	-4.19	122829.550	3.0	179661.480	3.0	176.2041	26.02	-3.70	79860.420	5.0	136612.780	4.0
175.9582	28.01	-2.89	56075.260	2.5	112906.930	1.5	176.2050	24.01	-4.50	20518.330	3.5	77270.400	4.5
175.9583	14.00	-3.34	6298.850	2.0	63130.490	1.0	176.2062	18.01	-4.36	145668.800	1.5	202420.490	.5
175.9603	10.04	-1.92	741975.000	2.0	798806.000	2.0	176.2097	24.01	-4.38	20519.850	4.5	77270.400	4.5
175.9627	10.01	-4.47	281720.280	1.5	338550.510	.5	176.2177	11.02	-4.46	412201.500	.5	468949.500	.5
175.9695	8.01	-3.33	208392.270	1.5	265220.300	1.5	176.2208	25.03	.43	152700.500	4.0	209447.500	4.0
175.9695	8.01	-3.33	208392.270	1.5	265220.300	1.5	176.2263	20.02	-1.36	225826.220	2.0	282571.430	1.0
175.9718	27.01	-2.70	4560.800	3.0	61388.100	4.0	176.2304	23.02	-2.79	98825.190	3.5	155569.100	2.5
175.9745	25.03	.34	112013.300	3.0	168839.700	4.0	176.2382	28.02	-3.38	85834.800	5.0	142576.200	5.0
175.9773	26.01	-2.62	2837.940	2.5	59663.450	1.5	176.2434	24.02	-2.49	117186.900	5.0	173926.600	6.0
175.9781	9.02	-1.08	387726.840	4.5	444552.080	3.5	176.2440	26.01	-3.61	27620.390	2.5	84359.900	1.5
175.9784	25.01	-4.00	49882.150	4.0	106707.300	4.0	176.2524	7.02	-1.14	330273.500	2.5	387010.300	3.5
175.9816	25.02	-3.12	86520.940	2.5	143345.070	3.5	176.2542	25.01	-4.13	27570.950	5.0	84307.200	4.0
175.9826	28.01	-3.76	77332.470	2.5	134156.280	1.5	176.2547	8.01	-3.67	208484.240	2.5	265220.300	1.5
175.9829	27.01	-6.22	25147.200	4.0	81970.900	5.0	176.2547	8.01	-4.09	208484.240	2.5	265220.300	1.5
175.9845	9.02	-3.68	356371.820	2.5	413195.000	2.5	176.2549	10.04	-1.68	641646.000	3.0	698382.000	2.0
175.9855	10.01	-4.38	246415.040	1.5	303279.910	1.5	176.2556	29.02	-0.51	80305.200	1.5	137041.000	.5
175.9859	9.02	-4.58	384493.060	1.5	441315.800	.5	176.2574	23.01	-3.39	19112.930	4.0	75848.130	3.0
175.9860	27.02	-2.63	82920.700	3.5	139743.400	2.5	176.2611	24.03	-0.08	104265.000	2.5	160999.000	1.5
175.9869	15.00	-1.96	11360.800	1.5	68183.200	1.5	176.2680	18.01	-4.67	135601.650	.5	192333.430	.5
175.9924	26.00	-7.31	888.132	1.0	57708.760	2.0	176.2736	23.02	-1.60	99941.200	3.5	156671.200	2.5
175.9924	25.01	-2.68	52653.270										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
176.3604	25.01	-2.28	33248.320	4.0	89950.400	3.0	176.5898	10.01	-3.35	219648.440	1.5	276276.850	1.5
176.3605	23.02	-4.08	42371.200	1.5	99073.230	.5	176.5928	25.02	-1.66	86520.940	2.5	143148.400	1.5
176.3612	28.02	-2.20	82277.000	1.0	138978.800	1.0	176.5944	14.00	-2.33	6298.850	2.0	62925.800	1.0
176.3639	7.01	-1.18	155126.730	1.0	211827.670	2.0	176.5986	23.01	-0.67	19132.690	2.0	75758.290	2.0
176.3661	14.00	-9.99	0.000	0.0	56700.250	1.0	176.6019	10.01	-2.07	246192.450	2.5	302816.980	1.5
176.3666	18.01	-2.15	132737.610	.5	189437.690	.5	176.6063	14.00	-1.00	77.115	1.0	56700.250	1.0
176.3683	10.02	-1.27	353148.000	3.0	409847.530	3.0	176.6067	24.02	.42	101443.700	2.0	158066.700	3.0
176.3690	27.01	-1.07	4560.800	3.0	61260.100	2.0	176.6070	25.01	-2.12	53805.800	4.0	110428.700	4.0
176.3714	22.01	-1.67	12628.770	1.5	69327.320	1.5	176.6079	7.01	-1.89	155126.730	1.0	211749.350	0.0
176.3727	10.01	-1.67	246192.450	2.5	302890.570	2.5	176.6091	14.00	-6.22	6298.850	2.0	62921.080	2.0
176.3743	26.02	-4.38	131445.030	2.0	188142.640	2.0	176.6132	9.01	-2.78	232063.340	1.0	288684.250	2.0
176.3743	24.02	.52	101745.300	3.0	158442.900	4.0	176.6157	25.02	-3.33	91948.300	3.5	148568.400	2.5
176.3759	10.02	-2.08	353148.000	3.0	409845.080	2.0	176.6157	23.02	-0.50	99181.500	1.5	155801.600	1.5
176.3765	25.01	-2.10	46903.260	2.0	103600.170	2.0	176.6158	9.01	-3.46	232064.160	2.0	288684.250	2.0
176.3776	18.02	-2.58	225402.590	3.0	282099.140	2.0	176.6198	23.01	-2.16	13609.000	4.0	70227.800	5.0
176.3793	12.02	-1.33	479456.000	1.0	536152.000	1.0	176.6217	29.02	-1.15	80422.800	.5	137041.000	.5
176.3808	24.01	-7.29	12148.000	2.5	68843.510	3.5	176.6220	27.01	-4.35	11321.500	2.0	67939.600	2.0
176.3812	11.02	-0.24	406562.000	1.5	463257.400	2.5	176.6273	25.03	-0.33	112882.800	5.0	169499.200	5.0
176.3846	26.01	-4.72	22637.190	4.5	79331.490	3.5	176.6316	25.03	-0.52	152700.500	4.0	209315.500	3.0
176.3903	23.01	-4.42	9097.810	4.0	65790.280	4.0	176.6354	14.00	-1.42	77.115	1.0	56690.903	2.0
176.3909	6.00	-1.78	21648.010	0.0	78340.280	1.0	176.6360	7.02	-1.25	330396.700	4.5	387010.300	3.5
176.3942	29.02	-2.27	63886.300	1.5	120577.500	2.5	176.6366	12.02	-1.01	530178.200	2.0	586791.600	2.0
176.3948	25.02	-1.24	86654.070	4.5	143345.070	3.5	176.6381	25.01	-1.97	33147.390	5.0	89760.330	5.0
176.3974	18.01	-2.93	147227.970	.5	203918.150	1.5	176.6381	13.00	.46	112.061	1.5	56724.960	1.5
176.3985	26.02	-4.12	128371.530	0.0	185061.350	1.0	176.6384	25.02	-3.59	174874.500	4.5	231487.340	4.5
176.3989	26.02	-2.86	140196.330	7.0	196886.010	6.0	176.6404	25.02	-3.13	91948.300	3.5	148560.250	4.5
176.3994	9.02	-2.88	387367.920	2.5	444057.440	-1.5	176.6404	20.02	-1.20	326186.320	3.0	382798.500	4.0
176.4013	26.02	-1.92	83138.230	5.0	139827.170	4.0	176.6410	24.01	-8.30	12148.000	2.5	68760.000	3.5
176.4015	25.02	-2.00	86520.940	2.5	143209.800	2.5	176.6440	28.01	-3.14	56075.260	2.5	112686.000	2.5
176.4024	24.01	-7.74	12303.980	3.5	68992.550	4.5	176.6454	30.02	-4.05	237047.800	2.0	293658.400	3.0
176.4027	25.01	-3.93	44899.820	3.0	101588.300	3.0	176.6479	8.02	-0.88	300228.210	0.0	356838.000	1.0
176.4042	10.03	-3.46	642934.000	3.5	699622.000	2.5	176.6491	9.02	-2.85	387259.280	1.5	443868.680	2.5
176.4085	26.02	-3.28	122944.150	4.0	179630.770	4.0	176.6505	25.01	-1.39	14781.190	2.0	71390.140	3.0
176.4117	26.01	-1.04	16369.390	3.5	73054.970	2.5	176.6542	25.01	-2.39	53597.130	2.0	110204.900	3.0
176.4131	26.02	-1.32	140196.330	7.0	196881.470	7.0	176.6550	27.02	-4.40	77472.300	2.5	134079.800	1.5
176.4135	7.02	-0.38	330325.300	3.5	387010.300	3.5	176.6558	9.01	-3.15	232066.320	3.0	288673.570	4.0
176.4202	26.02	-2.51	143320.850	6.0	200003.700	7.0	176.6596	9.02	-2.03	387259.280	1.5	443865.310	1.5
176.4224	23.02	-0.02	89457.670	2.5	146139.800	2.5	176.6623	20.02	-3.93	326186.320	3.0	382791.500	3.0
176.4244	30.02	-2.15	237506.800	1.0	294188.300	2.0	176.6766	9.01	-3.22	232064.160	2.0	288664.750	3.0
176.4253	27.02	-1.33	73726.600	2.5	130407.800	2.5	176.6777	9.01	-4.28	232063.340	1.0	288663.580	2.0
176.4260	24.03	-1.05	104265.000	2.5	160946.000	3.5	176.6789	26.02	-2.76	87901.870	3.0	144501.740	2.0
176.4264	11.01	-1.88	298169.140	1.0	354850.000	1.0	176.6793	28.01	-3.01	74300.930	1.5	130900.650	2.5
176.4291	27.01	-1.42	4560.800	3.0	61240.800	3.0	176.6794	12.02	.13	530178.200	2.0	586777.900	2.0
176.4313	28.02	-4.72	82172.900	3.0	138852.200	3.0	176.6803	9.01	-3.67	232064.160	2.0	288663.580	3.0
176.4321	25.01	-4.77	27589.030	2.0	84268.060	1.0	176.6819	24.02	-1.26	116967.000	4.0	173565.900	5.0
176.4351	10.02	-2.38	353177.160	2.0	409855.230	1.0	176.6833	9.01	-4.17	232066.320	3.0	288664.750	3.0
176.4360	26.02	-1.66	90483.590	3.0	147161.360	4.0	176.6835	20.02	-1.89	326186.320	3.0	382784.700	3.0
176.4362	25.01	-4.62	32787.600	4.0	89465.300	4.0	176.6870	9.01	-3.87	232066.320	3.0	288663.580	2.0
176.4394	28.01	-4.27	73893.730	1.5	130570.420	.5	176.6923	25.02	-2.01	138312.700	4.5	194908.200	5.5
176.4400	30.02	-2.94	237047.800	2.0	293724.300	2.0	176.6925	27.02	-2.54	72341.900	1.5	128937.400	.5
176.4431	7.02	-1.14	330325.300	3.5	387000.800	2.5	176.6928	28.01	-4.26	79923.880	4.5	136519.280	4.5
176.4440	26.01	-3.86	21812.040	1.5	78487.250	1.5	176.7010	26.00	-4.68	0.000	4.0	56592.760	4.0
176.4467	9.02	-3.03	384493.060	1.5	441167.400	.5	176.7030	28.01	-1.92	58493.210	2.5	115085.360	3.5
176.4483	24.01	-7.89	12496.790	4.5	69170.600	5.5	176.7031	23.01	-2.47	19166.190	1.0	75758.290	2.0
176.4486	26.01	-3.73	42658.230	3.5	99331.950	4.5	176.7038	24.00	-0.39	0.000	3.0	56591.880	2.0
176.4539	25.01	-3.27	33278.390	3.0	89950.400	3.0	176.7065	25.02	-2.00	89052.440	3.5	145643.450	2.5
176.4555	23.02	-0.76	99181.500	1.5	155853.000	2.5	176.7078	27.02	-1.25	47003.100	3.5	103593.700	2.5
176.4591	10.02	-2.86	353177.160	2.0	409847.530	3.0	176.7102	9.01	-2.51	232064.160	2.0	288653.990	3.0
176.4597	8.02	-0.33	300440.850	2.0	357111.000	2.0	176.7115	9.01	-4.60	232066.320	3.0	288655.720	4.0
176.4644	26.02	-1.47	87901.870	3.0	144570.530	3.0	176.7118	26.02	-3.18	83237.860	3.0	139827.170	4.0
176.4646	28.02	.15	75123.800	5.0	131792.400	4.0	176.7119	25.03	-1.77	152858.200	3.0	209447.500	4.0
176.4667	10.02	-1.46	353177.160	2.0	409845.080	2.0	176.7168	25.02	-4.07	138312.700	4.5	194900.400	5.5
176.4683	28.02	.25	53703.700	5.0	110371.100	4.0	176.7169	9.01	-3.39	232066.320	3.0	288653.990	3.0
176.4727	20.02	-3.57	326186.320	3.0	382852.300	2.0	176.7178	24.02	-0.17	97306.100	2.0	153893.500	2.0
176.4736	26.02	-2.04	83161.480	4.0	139827.170	4.0	176.7215	11.02	-1.57	406876.000	.5	463462.200	1.5
176.4741	9.02	-2.37	384493.060	1.5	441158.600	1.5	176.7239	26.01	-4.39	43238.610	2.5	99824.040	2.5
176.4743	28.01	-4.56	79923.880	4.5	136589.350	3.5	176.7259	18.01	-3.75	145668.800	1.5	202253.990	1.5
176.4817	25.02	-0.23	138245.090	5.5	194908.200	5.5	176.7306	27.02	-0.70	83799.600	2.5	140382.900	3.5
176.4842	25.02	-1.23	91906.100	2.5	148568.400	2.5	176.7315	24.02	-0.58	101745.300	3.0	158328.300	2.0
176.4863	25.02	-2.15	86486.770	1.5	143148.400	1.5	176.7323	23.01	-1.30	19132.690	2.0	75715.450	1.0
176.4901	25.01	-4.70	32858.840	2.0	89519.250	2.0	176.7375	25.02	-2.51	138605.800	6.5	195186.900	7.5
176.4910	30.02	-2.87	237642.700	3.0	294302.800	4.0	176.7393	28.02	-2.69	76237.800	3.0	132818.300	2.0
176.4914	10.04	-2.86	741975.000	2.0	798635.000	3.0	176.7405	7.01	-2.46	166521.690	1.0	223101.820	1.0
176.4943	25.01	-4.95	49820.160	2.0	106479.200	1.0	176.7425	10.01	-2.76	251522.120	1.5	308101.610	1.5
176.4944	28.01	-4.30	74283.330	.5	130942.360	1.5	176.7436	10.01	-4.54	251522.120	1.5	308101.270	2.5
176.4981	10.02	-2.45	353197.400	1.0	409855.230	1.0	176.7451	9.01	-4.35	232063.340	1.0	288641.980	0.0
176.5013	10.01	-1.78	246415.040	1.5	303071.840	2.5	176.7487	9.01	-4.65	232063.340	1.0	288640.850	1.0
176.5030	14.00	-0.90	77.115	1.0	56733								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
176.8042	18.01	-1.92	132481.140	2.5	189040.870	1.5	177.0782	24.01	-4.38	34631.140	4.5	91103.360	4.5
176.8050	9.02	-1.51	387367.920	2.5	443927.410	3.5	177.0809	25.01	-2.71	53597.130	2.0	110068.500	2.0
176.8062	24.01	-4.19	20519.850	4.5	77078.960	5.5	177.0845	26.01	-3.93	7955.240	3.5	64425.460	2.5
176.8065	24.01	-4.62	29952.080	.5	86511.080	1.5	177.0852	10.04	-1.71	742336.000	3.0	798806.000	2.0
176.8085	10.01	-2.30	246192.450	2.5	302750.810	3.5	177.0869	24.01	-3.81	20518.330	3.5	76987.780	2.5
176.8103	23.02	-1.81	42267.400	2.5	98825.190	3.5	177.0892	6.00	-3.86	21648.010	0.0	78116.740	1.0
176.8106	27.02	-1.80	82363.300	4.5	138921.000	4.5	177.0908	27.01	-5.43	24074.600	2.0	80542.800	3.0
176.8147	26.01	-3.19	27314.930	3.5	83871.310	4.5	177.0922	14.00	-0.86	223.157	2.0	56690.903	2.0
176.8162	26.01	-4.13	21581.640	4.5	78137.530	3.5	177.0935	26.02	-1.27	90423.680	2.0	146891.040	3.0
176.8212	24.02	-4.46	43286.400	4.0	99840.700	3.0	177.0958	24.02	-2.20	117099.300	4.0	173565.900	5.0
176.8216	23.01	-2.86	19161.270	0.0	75715.450	1.0	177.1038	28.01	-2.77	10115.660	2.5	66579.710	1.5
176.8222	10.03	-4.83	586685.000	1.5	643239.000	.5	177.1050	26.02	-1.36	83161.480	4.0	139625.170	4.0
176.8230	26.01	-3.01	27314.930	3.5	83868.650	2.5	177.1061	23.02	-3.59	85524.000	2.5	141987.320	3.5
176.8236	25.01	-4.19	49820.160	2.0	106373.700	2.0	177.1071	27.02	-1.95	72341.900	1.5	128804.900	1.5
176.8237	27.02	-4.43	83938.900	3.5	140492.400	4.5	177.1098	56.01	-3.43	4873.850	0.0	61335.999	0.0
176.8259	26.02	-4.09	69837.760	2.0	126390.570	1.0	177.1171	26.02	-2.50	132564.710	5.0	189024.530	5.0
176.8283	25.01	-3.68	33248.320	4.0	89800.340	4.0	177.1250	25.03	.25	152858.200	3.0	209315.500	3.0
176.8324	24.01	-7.34	12032.720	1.5	68583.440	2.5	177.1253	27.02	-0.33	73726.600	2.5	130183.800	3.5
176.8370	23.01	-1.17	19166.190	1.0	75715.450	1.0	177.1290	24.01	-8.47	12303.980	3.5	68760.000	3.5
176.8400	15.00	-4.48	11360.800	1.5	67909.100	1.5	177.1300	26.02	-3.90	128605.650	1.0	185061.350	1.0
176.8413	10.01	-4.34	249695.530	1.5	306243.420	2.5	177.1301	28.01	-3.03	10115.660	2.5	66571.340	2.5
176.8471	10.01	-3.77	246415.040	1.5	302961.070	1.5	177.1357	23.02	-0.38	101785.810	1.5	158239.700	2.5
176.8472	27.02	-0.25	73861.800	1.5	130407.800	2.5	177.1368	23.02	-1.08	89193.470	1.5	145647.000	1.5
176.8473	26.01	-3.25	3117.480	1.5	59663.450	1.5	177.1492	26.01	-3.63	43238.610	2.5	99688.200	3.5
176.8484	30.02	-4.16	237642.700	3.0	294188.300	2.0	177.1495	25.02	-2.82	91906.100	2.5	148355.600	3.5
176.8594	23.02	-1.16	101645.610	.5	158187.700	.5	177.1495	28.02	-0.32	55952.000	2.0	112401.500	1.0
176.8598	25.01	-1.73	14781.190	2.0	71323.150	2.0	177.1504	28.01	-2.40	58493.210	2.5	114942.420	1.5
176.8616	23.02	-1.32	99440.100	2.5	155981.500	3.5	177.1562	26.02	-4.99	149285.000	3.0	205732.370	3.0
176.8616	24.02	-2.45	96385.900	2.0	152927.300	3.0	177.1569	26.02	-1.96	132564.710	5.0	189011.840	4.0
176.8622	30.02	-2.27	221052.200	4.0	277593.400	4.0	177.1632	25.01	-2.90	49820.160	2.0	106265.300	1.0
176.8660	25.01	-3.93	34761.810	5.0	91301.800	5.0	177.1666	23.02	-0.76	88327.960	3.5	144772.020	3.5
176.8674	24.01	-6.97	12303.980	3.5	68843.510	3.5	177.1667	27.02	-0.29	83938.900	3.5	140382.900	3.5
176.8677	23.02	-1.06	99804.570	2.5	156344.000	1.5	177.1701	25.02	-3.89	86654.970	4.5	143097.000	3.5
176.8731	30.02	-2.05	237506.800	1.0	294044.500	1.0	177.1708	26.00	-8.80	415.932	3.0	56858.650	2.0
176.8766	24.02	-2.46	43304.100	2.0	99840.700	3.0	177.1710	26.01	-1.90	36252.960	2.5	92699.620	2.5
176.8853	26.02	-4.41	84159.550	4.0	140693.360	3.0	177.1711	26.02	-2.18	83237.860	3.0	139680.470	3.0
176.8869	29.02	-0.63	67016.600	3.5	123549.900	4.5	177.1724	26.01	-4.06	8391.920	2.5	64834.120	1.5
176.8888	15.00	.30	11376.400	2.5	67909.100	1.5	177.1736	26.02	-3.11	143883.740	5.0	200325.560	4.0
176.8929	28.01	-3.55	52738.450	2.5	109269.830	1.5	177.1821	24.02	-1.82	117487.500	6.0	173926.600	6.0
176.9025	30.02	-3.89	237506.800	1.0	294035.100	2.0	177.1829	18.01	-1.61	132327.280	3.5	188766.150	2.5
176.9028	25.01	-3.01	43370.370	3.0	99898.600	4.0	177.1850	27.02	-0.10	83773.400	1.5	140211.600	2.5
176.9045	8.02	-0.92	300310.310	1.0	356838.000	1.0	177.1854	28.01	-4.25	73893.730	1.5	130331.780	1.5
176.9078	25.01	-0.88	47073.560	3.0	103600.170	2.0	177.1869	28.01	-1.17	71457.740	3.5	127895.330	3.5
176.9133	13.00	-0.24	112.061	1.5	56636.930	.5	177.1923	27.01	-1.62	13261.100	2.0	69696.970	3.0
176.9147	25.01	-3.12	43370.370	3.0	99894.800	3.0	177.1936	24.01	-6.99	12148.000	2.5	68583.440	2.5
176.9157	24.02	.51	102099.600	4.0	158623.700	4.0	177.1959	26.01	-1.65	21308.080	1.5	77742.780	2.5
176.9160	27.02	-2.74	70934.100	2.5	127458.100	1.5	177.1975	26.02	-1.50	66464.640	3.0	122898.840	2.0
176.9219	25.01	-3.54	43370.370	3.0	99892.500	2.0	177.1999	25.01	-1.57	29869.110	2.0	86302.550	3.0
176.9224	25.01	-3.98	33278.390	3.0	89800.340	4.0	177.2040	26.01	-4.56	22409.820	.5	78841.970	.5
176.9225	18.02	-3.49	186903.050	2.0	243244.970	3.0	177.2082	25.03	-0.21	112408.900	4.0	168839.700	4.0
176.9249	26.01	-5.72	22810.330	3.5	79331.490	3.5	177.2094	25.02	-3.54	138605.800	6.5	195036.200	6.5
176.9257	27.01	-5.72	24267.800	1.0	80788.700	2.0	177.2094	25.02	-0.08	138605.800	6.5	195036.200	6.5
176.9266	23.02	-0.28	89457.670	2.5	145978.270	2.5	177.2096	26.02	-1.02	87901.870	3.0	144332.210	4.0
176.9305	7.01	-2.13	166582.450	2.0	223101.820	1.0	177.2199	28.01	-1.81	78955.450	1.5	135382.530	1.5
176.9317	26.02	-2.88	83161.480	4.0	139680.470	3.0	177.2210	25.01	-2.52	31514.350	4.0	87941.080	4.0
176.9317	24.02	-2.96	43321.700	3.0	99840.700	3.0	177.2211	27.02	-0.68	83773.400	1.5	140200.100	1.5
176.9324	25.02	-4.87	86578.240	3.5	143097.000	3.5	177.2225	14.00	-1.20	77.115	1.0	56503.346	2.0
176.9337	28.01	-2.67	77332.470	2.5	133850.830	3.5	177.2226	27.02	-0.51	83799.600	2.5	140225.800	3.5
176.9342	17.02	-2.53	202367.600	3.5	258885.800	2.5	177.2244	26.01	-5.80	21711.890	3.5	78137.530	3.5
176.9360	24.02	-0.64	117145.200	5.0	173662.800	6.0	177.2250	15.01	-3.73	8882.600	2.0	65308.050	3.0
176.9460	14.00	-3.86	6298.850	2.0	62813.260	1.0	177.2280	28.01	-3.43	0.000	2.5	56424.490	1.5
176.9471	16.00	-3.51	22177.820	0.0	78691.890	1.0	177.2288	10.01	-2.72	246415.040	1.5	302839.280	2.5
176.9499	25.02	-4.90	174874.500	4.5	231387.660	3.5	177.2305	24.02	-1.03	97306.100	2.0	153729.800	1.0
176.9535	25.01	-3.75	33248.320	4.0	89760.330	5.0	177.2308	29.02	-2.21	67016.600	3.5	123440.200	2.5
176.9549	26.02	-3.05	143883.740	5.0	200395.330	5.0	177.2309	23.02	-0.24	99073.230	.5	155496.800	1.5
176.9552	18.01	-3.93	157673.320	2.5	214184.790	3.5	177.2318	26.00	-4.66	0.000	4.0	56423.276	4.0
176.9554	9.02	-0.96	387726.840	4.5	444238.270	4.5	177.2321	25.01	-2.76	53781.700	3.0	110204.900	3.0
176.9601	38.01	-0.06	14555.900	0.0	71065.814	0.0	177.2322	10.01	-4.65	249839.630	.5	306262.770	1.5
176.9608	28.02	-0.85	75646.900	4.0	132156.600	4.0	177.2359	25.01	-1.34	14901.180	1.0	71323.150	2.0
176.9617	23.02	-0.47	101645.610	.5	158155.000	1.5	177.2368	8.02	-0.80	300310.310	1.0	356732.000	0.0
176.9617	25.03	-0.43	131170.100	4.0	187679.500	4.0	177.2393	27.02	-1.92	73286.000	4.5	129706.900	3.5
176.9630	24.03	-0.19	104003.000	1.5	160512.000	.5	177.2399	24.02	-1.22	117145.200	5.0	173565.900	5.0
176.9639	28.02	.54	53703.700	5.0	110212.400	5.0	177.2414	25.02	-0.18	121267.320	2.5	177687.540	3.5
176.9661	28.02	-0.02	55406.100	3.0	111914.100	2.0	177.2437	27.02	-0.70	83938.900	3.5	140358.400	4.5
176.9678	26.01	-1.80	15844.710	4.5	72352.170	3.5	177.2442	25.01	-2.59	37811.570	1.0	94230.900	2.0
176.9679	25.02	-4.14	86654.070	4.5	143161.500	4.5	177.2446	25.01	-1.91	14325.860	4.0	70745.080	3.0
176.9717	25.01	-3.56	53698.700	2.0	110204.900	3.0	177.2478	29.02	-1.47	68963.600	2.5	125381.800	2.5
176.9786	14.00	-1.37	6298.850	2.0	62802.860	3.0	177.2481						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
177.3099	26.02	-1.66	66522.950	2.0	122921.370	1.0	177.5524	24.02	-1.06	101745.300	3.0	158066.700	3.0
177.3100	24.01	-3.93	25033.950	3.5	81432.360	3.5	177.5527	26.02	-2.84	144116.640	3.0	200437.940	2.0
177.3139	25.01	-2.45	53597.130	2.0	109994.300	1.0	177.5534	25.01	-2.36	29869.110	2.0	86190.180	2.0
177.3216	8.02	-0.73	300440.850	2.0	356838.000	1.0	177.5535	28.01	-2.44	70358.940	4.5	126679.980	4.5
177.3246	27.02	-0.68	85474.100	6.5	141868.800	6.5	177.5566	26.02	-2.50	66522.950	2.0	122843.030	1.0
177.3273	29.01	-2.94	272188.700	1.0	328582.450	1.0	177.5634	25.01	-1.91	33147.390	5.0	89465.300	4.0
177.3289	30.02	-2.92	237642.700	3.0	294035.100	2.0	177.5709	10.01	-4.80	249695.530	1.5	306011.070	5.0
177.3297	26.01	-8.07	22939.350	2.5	79331.490	3.5	177.5716	23.02	-0.18	99181.500	1.5	155496.800	1.5
177.3314	30.02	-3.03	237642.700	3.0	294034.300	4.0	177.5729	28.01	-4.35	56371.410	3.5	112686.300	2.5
177.3321	25.01	-3.17	34910.430	4.0	91301.800	5.0	177.5742	28.02	-0.30	82172.900	3.0	138487.400	3.0
177.3346	15.01	-4.65	8882.600	2.0	65273.180	2.0	177.5756	18.02	-4.31	225147.930	2.0	281461.970	2.0
177.3368	9.02	-0.81	387523.470	3.5	443913.330	4.5	177.5839	28.02	-0.08	84604.800	1.0	140916.200	2.0
177.3402	24.02	-0.60	117487.500	6.0	173876.300	7.0	177.5880	27.01	-1.43	4950.000	2.0	61260.100	2.0
177.3440	23.02	-0.42	99181.500	1.5	155569.100	2.5	177.5884	24.03	-0.94	104003.000	1.5	160313.000	2.5
177.3449	26.02	-2.61	83237.860	3.0	139625.170	4.0	177.5904	26.02	-2.50	144085.970	4.0	200395.330	5.0
177.3458	26.02	-2.92	149285.000	3.0	205672.010	4.0	177.5905	18.01	-4.45	148620.070	1.5	204929.400	5.5
177.3476	26.02	-4.67	125443.580	4.0	181830.020	3.0	177.5915	24.03	-0.52	104637.000	3.5	160946.000	3.5
177.3485	25.02	-0.19	121091.080	1.5	177477.230	2.5	177.5916	25.01	-4.50	32787.600	4.0	89096.560	4.0
177.3490	24.02	-2.25	96713.100	3.0	153099.100	4.0	177.5973	26.02	-0.74	66591.680	1.0	122898.840	2.0
177.3511	24.01	-3.90	25047.040	2.5	81432.360	3.5	177.5985	26.01	-6.86	22939.350	2.5	79246.130	1.5
177.3515	27.02	-3.23	71873.700	5.5	128258.900	5.5	177.5985	18.02	-2.39	225155.180	1.0	281461.970	2.0
177.3517	9.02	-1.55	387367.920	2.5	443753.060	2.5	177.5991	26.02	-0.36	66522.950	2.0	122829.550	3.0
177.3550	25.03	-0.07	111506.000	1.0	167890.100	2.0	177.6000	27.02	-1.74	73286.000	4.5	129592.300	4.5
177.3565	27.02	-0.49	47003.100	3.5	103386.700	4.5	177.6053	26.02	-2.08	88663.870	4.0	144968.500	4.0
177.3565	27.02	-1.98	70934.100	2.5	127317.700	3.5	177.6057	25.01	-5.33	27570.950	5.0	83875.460	4.0
177.3574	25.01	-5.52	29919.220	2.0	86302.550	3.0	177.6061	26.01	-3.97	22939.350	2.5	79243.730	1.5
177.3584	25.01	-1.43	37847.900	2.0	94230.900	2.0	177.6070	25.01	-1.27	14959.840	0.0	71263.920	1.0
177.3584	10.03	-4.13	643239.000	5.5	699622.000	1.5	177.6082	28.02	-0.68	81866.900	6.0	137990.600	7.0
177.3595	26.00	-5.91	0.000	4.0	56382.664	5.0	177.6096	18.01	-2.73	132737.610	5.5	189040.870	1.5
177.3626	28.01	-3.10	58493.210	2.5	114874.880	2.5	177.6101	23.01	-2.93	13609.000	4.0	69912.100	4.0
177.3645	26.02	-1.66	84369.920	2.0	140750.980	2.0	177.6123	25.02	-1.40	138605.800	6.5	194908.200	5.5
177.3686	25.01	-0.77	37851.150	3.0	94230.900	2.0	177.6133	29.02	-0.61	80305.200	1.5	136607.300	2.5
177.3701	29.02	-1.29	86133.000	5.5	142512.300	1.5	177.6140	26.02	-3.03	83161.480	4.0	139463.360	5.0
177.3710	24.02	-1.63	117186.900	5.0	173565.900	5.0	177.6171	25.01	-5.41	29889.310	3.0	86190.180	2.0
177.3789	28.02	-0.18	75123.800	5.0	131500.300	5.0	177.6200	4.01	-0.40	31933.000	0.0	88232.966	0.0
177.3808	26.02	-1.45	66522.950	2.0	122898.840	2.0	177.6230	10.04	-2.02	742336.000	3.0	798635.000	3.0
177.3844	26.02	-0.97	88663.870	4.0	145038.610	3.0	177.6252	26.02	-3.08	144085.970	4.0	200384.280	3.0
177.3874	28.02	-2.90	81686.900	6.0	138060.700	5.0	177.6294	25.01	-2.46	14781.190	2.0	71078.180	1.0
177.3949	28.01	-1.49	0.000	2.5	56371.410	3.5	177.6313	26.02	-2.00	132659.170	4.0	188955.560	3.0
177.3955	26.02	-1.11	83138.230	5.0	139509.440	5.0	177.6327	7.01	-2.18	166582.450	2.0	222878.390	2.0
177.3962	12.02	-0.58	530420.600	1.0	586791.600	2.0	177.6338	25.01	-3.58	53698.700	2.0	109994.300	1.0
177.4000	25.01	-3.88	53698.700	2.0	110068.500	2.0	177.6354	25.02	-0.41	120974.250	5.5	177269.340	1.5
177.4004	15.01	-4.02	8882.600	2.0	65252.250	1.0	177.6369	25.02	-4.75	138605.800	6.5	194900.400	5.5
177.4012	23.01	-2.32	13542.680	3.0	69912.100	4.0	177.6402	26.02	-2.14	84159.550	4.0	140453.100	3.0
177.4019	23.02	-0.86	101785.810	1.5	158155.000	1.5	177.6417	23.02	-0.95	99508.500	1.5	155801.600	1.5
177.4075	14.00	-2.68	6298.850	2.0	62666.250	1.0	177.6431	25.01	-3.59	33278.390	3.0	89571.030	3.0
177.4076	26.00	-6.04	415.932	3.0	56783.306	3.0	177.6446	25.01	-3.43	27583.300	4.0	83875.460	4.0
177.4084	28.01	-3.55	10663.890	1.5	67031.020	5.5	177.6489	27.01	-2.41	4950.000	2.0	61240.800	3.0
177.4101	9.02	-4.80	413195.000	2.5	469561.580	1.5	177.6497	23.01	-2.15	8640.210	2.0	64930.760	1.0
177.4106	24.01	-4.87	20512.620	2.5	76879.030	3.5	177.6505	24.01	-2.85	34813.060	5.5	91103.360	4.5
177.4118	9.02	-0.55	387259.280	1.5	443625.310	2.5	177.6540	25.01	-5.50	29919.220	2.0	86208.400	1.0
177.4136	25.01	-3.23	27546.900	6.0	83912.380	5.0	177.6568	27.01	-2.51	11651.310	2.0	67939.600	2.0
177.4139	26.02	-0.12	132659.170	4.0	189024.530	5.0	177.6602	25.01	-4.06	27588.230	3.0	83875.460	4.0
177.4147	26.02	-3.28	125443.580	4.0	181808.700	5.0	177.6612	27.02	-0.22	83938.900	3.5	140225.800	3.5
177.4153	26.02	-3.60	66464.640	3.0	122829.550	3.0	177.6615	25.01	-2.86	53781.700	3.0	110068.500	2.0
177.4168	23.02	-1.02	89457.670	2.5	145822.110	1.5	177.6616	24.01	-5.50	21822.860	2.5	78109.640	1.5
177.4182	24.02	-0.55	102099.600	4.0	158463.600	3.0	177.6649	26.01	-1.69	15844.710	4.5	72130.440	4.5
177.4198	24.02	-2.31	56992.200	3.0	113355.200	2.0	177.6660	24.01	-4.14	21824.250	5.5	78109.640	1.5
177.4202	10.01	-3.91	246597.710	5.5	302961.070	1.5	177.6672	18.01	-2.02	132481.140	2.5	188766.150	2.5
177.4222	25.01	-1.41	14901.180	1.0	71263.920	1.0	177.6678	24.01	-4.57	21824.820	1.5	78109.640	1.5
177.4261	23.02	-0.69	99440.100	2.5	155801.600	1.5	177.6751	26.01	-2.17	16369.390	3.5	72651.910	3.5
177.4286	24.01	-3.79	20518.330	3.5	76879.030	3.5	177.6791	26.01	-3.18	16369.390	3.5	72650.630	4.5
177.4317	15.02	-0.68	559.600	1.5	56919.300	5.5	177.6803	26.02	-3.08	82410.940	2.0	138691.810	1.0
177.4334	24.01	-3.48	20519.850	4.5	76879.030	3.5	177.6818	28.02	-0.66	84604.800	1.0	140885.200	1.0
177.4412	7.01	-3.38	166521.690	1.0	222878.930	2.0	177.6824	14.00	-0.54	223.157	2.0	56503.346	2.0
177.4418	27.02	-0.61	85517.300	5.5	141873.800	5.5	177.6847	24.01	-7.11	12303.980	3.5	68583.440	2.5
177.4459	25.03	-3.67	137853.000	4.0	194208.200	3.0	177.6850	25.01	-2.63	31661.720	3.0	87941.080	4.0
177.4460	24.01	-3.94	34631.140	4.5	90986.310	3.5	177.6907	28.01	-4.98	79923.880	4.5	136201.460	3.5
177.4519	28.02	-1.84	85834.800	5.0	142188.100	6.0	177.6950	25.01	-4.91	30684.810	1.0	86961.000	1.0
177.4539	26.02	-2.60	132659.170	4.0	189011.840	4.0	177.6988	25.01	-4.77	32787.600	4.0	89062.600	5.0
177.4576	27.02	-0.74	85517.300	5.5	141868.800	6.5	177.7013	25.03	-0.10	152986.000	2.0	209260.200	2.0
177.4608	25.01	-5.94	27583.300	4.0	83933.770	3.0	177.7025	26.02	-0.91	88694.670	5.0	144968.500	4.0
177.4614	18.01	-3.24	154181.430	4.5	210331.700	5.5	177.7026	18.01	-4.58	154203.970	3.5	210477.770	3.5
177.4687	26.02	-3.02	83161.480	4.0	139509.440	5.0	177.7039	11.02	-0.60	419173.200	1.5	471446.600	1.5
177.4726	24.01	-0.04	12496.790	4.5	68843.510	3.5	177.7051	24.01	-0.30	12032.720	1.5	68305.730	1.5
177.4736	25.01	-2.06	14593.820	3.0	70940.240	2.0	177.7061	27.02	-1.20	83938.900	3.5	140211.600	2.5
177.4751	25.01	-1.74	30523.450	6.0	86869.390	6.0	177.7116	25.01	-4.92	29919.220	2.0	86190.180	2.0
177.4757	26.01	-5.84	22939.350	2.5									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
177.8056	24.01	-7.14	12496.790	4.5	68737.990	5.0	178.0344	28.01	-4.40	58705.950	1.5	114874.880	2.5
177.8067	25.01	-2.54	33278.390	3.0	89519.250	2.5	178.0370	25.01	-6.70	29889.310	3.0	86057.400	4.0
177.8084	27.02	-4.93	47415.400	2.5	103655.700	1.5	178.0414	27.02	-1.58	73540.200	3.5	129706.900	3.5
177.8106	25.01	-4.99	32856.950	3.0	89096.560	4.0	178.0478	23.02	-0.06	102075.000	2.5	158239.700	2.5
177.8107	26.02	-3.52	144085.970	4.0	200325.560	4.0	178.0479	9.02	-3.83	441158.600	1.5	497323.250	2.5
177.8120	26.02	-3.85	132785.360	4.0	189024.530	5.0	178.0503	23.01	-3.12	8640.210	2.0	64804.130	2.0
177.8122	27.02	-3.64	77472.300	2.5	133711.400	2.5	178.0509	26.02	-1.87	66464.640	3.0	122628.340	2.0
177.8124	25.01	-6.16	29951.120	1.0	86190.180	2.0	178.0541	24.02	-2.77	101745.300	3.0	157908.000	4.0
177.8205	28.01	-3.02	58705.950	1.5	114942.420	1.5	178.0567	26.01	-4.91	41968.110	5.5	98129.980	6.5
177.8267	18.01	-4.42	154203.970	3.5	210438.500	4.5	178.0573	7.01	-1.76	166582.450	2.0	222744.160	1.0
177.8269	26.02	-4.61	122944.150	4.0	179178.620	3.0	178.0657	25.01	-2.50	14781.190	2.0	70940.240	2.0
177.8281	10.01	-2.50	246597.710	5.5	302831.800	5.5	178.0699	24.01	-5.37	12148.000	2.5	68305.730	1.5
177.8294	14.02	-1.15	201597.730	1.0	257831.400	2.0	178.0716	26.02	-3.99	125672.830	2.0	181830.020	3.0
177.8299	24.02	-2.59	116967.000	4.0	173200.500	5.0	178.0729	18.01	-1.72	150474.900	1.5	206631.670	2.5
177.8302	10.01	-2.29	246192.450	2.5	302425.870	1.5	178.0759	26.02	-4.93	125672.830	2.0	181828.660	2.0
177.8311	14.02	-0.98	201598.280	2.0	257831.400	3.0	178.0765	26.02	-1.58	105929.160	3.0	162084.800	2.0
177.8311	14.02	-1.89	201598.280	2.0	257831.400	2.0	178.0780	22.01	-3.62	93.940	2.5	56249.110	1.5
177.8335	26.01	-4.40	36126.410	1.5	92358.800	1.5	178.0797	26.00	-5.87	704.003	2.5	56858.650	2.0
177.8347	22.01	-3.97	93.940	2.5	56325.940	2.5	178.0828	26.01	-4.39	8680.470	1.5	64834.120	1.5
177.8349	14.02	-3.43	201599.480	3.0	257831.400	2.0	178.0837	23.01	-2.42	13490.840	2.0	69644.200	3.0
177.8349	14.02	-1.89	201599.480	3.0	257831.400	3.0	178.0838	29.01	-2.03	85388.770	2.0	141542.100	2.0
177.8349	14.02	-0.82	201599.480	3.0	257831.400	4.0	178.0904	25.01	-2.14	14593.820	3.0	70745.080	3.0
177.8423	9.02	-3.09	387523.470	3.5	443753.060	2.5	178.0989	26.02	-2.95	88694.670	5.0	144843.240	5.0
177.8424	38.01	-0.01	14836.240	0.0	71065.801	0.0	178.1087	28.02	-4.40	75646.900	4.0	131792.400	4.0
177.8424	38.01	-1.29	14836.240	0.0	71065.801	0.0	178.1134	27.01	-1.58	5204.500	1.0	61348.500	1.0
177.8504	26.02	-3.52	123455.920	0.0	179682.940	1.0	178.1139	26.02	-4.58	128917.510	2.0	185061.350	1.0
177.8521	26.02	-3.52	132785.360	4.0	189011.840	4.0	178.1151	23.01	-5.06	20242.320	4.0	76385.800	3.0
177.8549	25.03	-1.88	137930.100	5.0	194155.700	6.0	178.1181	25.01	-6.33	29919.220	2.0	86061.750	3.0
177.8549	11.02	-0.52	411548.200	2.5	467773.800	2.5	178.1191	24.02	-2.53	102099.600	4.0	158241.800	5.0
177.8627	22.01	-4.32	0.000	1.5	56223.133	5.5	178.1280	28.02	-0.36	62606.300	3.0	118745.700	3.0
177.8630	23.01	-4.36	11514.760	1.0	67737.800	2.0	178.1340	26.01	-1.35	18360.650	1.5	74498.150	1.5
177.8648	7.01	-2.39	166521.690	1.0	222744.160	1.0	178.1404	18.01	-2.84	132630.650	1.5	188766.150	2.5
177.8665	25.01	-1.36	32856.950	3.0	89078.900	2.0	178.1406	23.01	-5.05	36.050	1.0	56171.490	1.0
177.8721	25.01	-4.08	14325.860	4.0	70546.020	4.0	178.1478	26.02	-2.15	93392.450	3.0	149525.630	2.0
177.8725	25.01	-1.37	32858.840	2.0	89078.900	2.0	178.1507	26.01	-4.77	7955.240	3.5	64087.500	2.5
177.8733	28.02	-0.04	83033.800	2.0	139253.600	2.0	178.1508	26.01	-2.99	13474.430	2.5	69606.640	3.5
177.8750	10.01	-1.66	246597.710	5.5	302818.980	1.5	178.1552	23.01	-3.17	20089.560	1.0	76220.400	2.0
177.8806	30.02	-2.44	237506.800	1.0	293724.300	2.0	178.1579	26.02	-3.66	123552.950	1.0	179682.940	1.0
177.8806	24.02	-2.34	97097.100	4.0	153314.600	5.0	178.1601	29.01	-1.72	72724.000	2.0	128853.300	2.0
177.8822	25.01	-1.72	33248.320	4.0	89465.300	4.0	178.1610	23.02	-0.11	99440.100	2.5	155569.100	2.5
177.8890	26.01	-7.01	23031.300	1.5	79246.130	1.5	178.1704	26.01	-3.97	8680.470	1.5	64806.520	5.5
177.8892	26.02	-2.27	87901.870	3.0	144116.640	3.0	178.1737	12.02	-1.12	474053.200	3.0	530178.200	2.0
177.8910	24.02	-3.33	96713.100	3.0	152927.300	3.0	178.1771	26.02	-3.71	123552.950	1.0	179676.890	2.0
177.8966	26.01	-4.06	23031.300	1.5	79243.730	1.5	178.1866	10.01	-4.82	249445.990	2.5	305566.940	1.5
177.9013	25.02	-0.57	120974.250	5.5	177185.180	5.5	178.1896	25.01	-2.63	29869.110	2.0	85989.120	2.0
177.9027	24.02	-1.38	97683.000	3.0	153893.500	2.0	178.1949	25.01	-2.42	14959.840	0.0	71078.180	1.0
177.9046	25.02	-0.18	121267.320	2.5	177477.230	2.5	178.1975	26.02	-2.59	83646.980	1.0	139764.480	2.0
177.9077	26.02	-4.23	144116.640	3.0	200325.560	4.0	178.1991	18.01	-4.70	147227.970	5.5	203344.980	1.5
177.9100	26.01	-4.97	42237.050	3.5	98445.240	4.5	178.2015	28.01	-3.92	77736.790	4.5	133853.040	4.5
177.9116	28.02	-0.82	79143.300	2.0	135351.000	2.0	178.2019	23.02	-2.57	42267.400	2.5	98383.530	2.5
177.9128	25.02	-0.28	121480.240	3.5	177687.540	3.5	178.2045	10.01	-2.31	246192.450	2.5	302307.750	2.5
177.9135	27.02	-1.91	73540.200	3.5	129747.300	2.5	178.2085	28.01	-2.97	77736.790	4.5	133850.830	3.5
177.9152	26.02	-4.97	123552.950	1.0	179759.490	2.5	178.2128	26.02	-2.86	15212.930	2.0	149525.630	2.0
177.9244	26.02	-4.63	63494.000	3.0	119697.640	2.0	178.2138	24.01	-3.92	21822.860	2.5	77935.240	2.5
177.9249	24.01	-4.52	30307.600	1.5	86511.080	1.5	178.2163	23.02	-3.27	85875.740	3.5	141987.320	3.5
177.9256	25.01	-4.34	31514.350	4.0	87717.620	3.0	178.2200	24.01	-3.78	21824.820	1.5	77935.240	2.5
177.9262	26.02	-4.65	63494.560	2.0	119697.640	2.0	178.2264	25.03	-0.36	131170.100	4.0	187278.500	5.0
177.9263	26.01	-4.45	43620.980	1.5	99824.040	2.5	178.2281	25.01	-2.80	34910.430	4.0	91018.300	3.0
177.9313	25.01	-3.36	14325.860	4.0	70527.320	5.0	178.2289	18.01	-3.38	150147.620	2.5	206255.230	2.5
177.9341	9.02	-2.92	387726.840	4.5	443927.410	3.5	178.2293	9.02	-0.24	387523.470	3.5	443630.960	3.5
177.9344	24.01	-4.47	33556.060	1.5	91556.540	1.5	178.2360	26.02	-1.51	66522.950	2.0	122628.340	2.0
177.9366	24.01	-4.14	30307.600	1.5	86507.380	2.5	178.2469	18.01	-4.94	158730.210	2.5	214832.170	3.5
177.9367	7.01	-1.37	166678.640	3.0	222878.390	2.0	178.2473	9.02	-1.85	387523.470	3.5	443625.310	2.5
177.9392	24.01	-5.59	25033.950	3.5	81232.910	2.5	178.2477	23.02	-0.71	106441.310	4.5	162543.000	5.5
177.9442	28.02	-0.50	63472.600	2.0	119670.000	2.0	178.2483	23.01	-3.01	13542.680	3.0	69644.200	3.0
177.9457	26.02	-2.42	82494.880	1.0	138691.810	1.0	178.2491	26.01	-4.79	37227.320	5.5	93328.600	1.5
177.9461	25.01	-4.84	31661.720	3.0	87858.510	2.0	178.2493	24.02	-1.46	117099.300	4.0	173200.500	5.0
177.9500	28.01	-2.90	77332.470	2.5	133528.020	3.5	178.2516	22.01	-3.34	225.470	3.5	56325.940	2.5
177.9537	27.02	-1.61	72341.900	1.5	128536.300	5.5	178.2537	25.01	-6.08	29889.310	3.0	85989.120	2.0
177.9562	24.02	-3.20	101443.700	2.0	157637.300	3.0	178.2538	9.02	-1.57	413143.860	3.5	469243.660	4.5
177.9592	25.01	-3.25	29869.110	2.0	86061.750	3.0	178.2596	18.01	-0.98	150147.620	2.5	206245.570	3.5
177.9617	25.01	-4.86	14325.860	4.0	70517.720	3.0	178.2600	26.00	-5.44	0.000	4.0	56097.850	3.0
177.9660	23.02	-4.77	85524.000	2.5	141714.500	2.5	178.2608	25.01	-1.65	31760.930	2.0	87858.510	2.0
177.9671	25.01	-3.57	30679.240	5.0	86869.390	6.0	178.2625	28.01	-3.89	57080.550	3.5	113177.610	3.5
177.9682	24.01	-4.84	25043.100	1.5	81232.910	2.5	178.2675	11.01	-2.69	308864.540	0.0	364960.000	1.0
177.9694	26.02	-1.87	105895.350	1.0	162084.800	2.0	178.2716	26.01	-2.89	30388.550	4.5	86482.750	3.5
177.9697	23.02	-1.06	89457.670	2.5	145647.000	1.5	178.2719	25.02	-0.37	121091.080	1.5	177185.180	5.5
177.9714	23.02	-0.79	99941.200	3.5									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
178.3609	25.02	-4.31	176695.060	4.5	232761.160	5.5	178.6017	25.03	-.29	119445.500	2.0	175436.000	3.0
178.3616	25.01	-1.14	31514.350	4.0	87580.230	4.0	178.6019	26.01	-5.04	27314.930	3.5	83305.370	3.5
178.3648	23.01	-5.20	106.630	2.0	56171.490	1.0	178.6062	25.02	-2.93	116580.170	1.5	172569.270	1.5
178.3682	25.02	-3.53	116692.140	2.5	172755.950	3.5	178.6079	28.01	-1.74	57420.160	2.5	113408.710	1.5
178.3690	26.02	-4.78	123697.180	2.0	179760.720	3.0	178.6087	23.02	-1.97	99508.500	1.5	155496.800	1.5
178.3698	25.01	-5.47	29889.310	3.0	85952.600	3.0	178.6112	24.01	-1.72	35569.020	2.5	91556.540	1.5
178.3704	26.02	-2.38	144332.210	4.0	200395.330	5.0	178.6117	26.01	-6.75	8846.760	.5	64834.120	1.5
178.3716	26.02	-4.58	132079.910	3.0	188142.640	2.0	178.6119	27.02	-.78	76518.900	5.5	132506.200	5.5
178.3784	23.02	-.72	99308.500	1.5	155569.100	2.5	178.6124	28.01	-2.64	57420.160	2.5	113407.310	2.5
178.3785	10.01	-2.03	246415.040	1.5	302475.610	.5	178.6168	26.02	-4.79	123697.180	2.0	179682.940	1.0
178.3800	29.02	-.56	80422.800	.5	136482.900	1.5	178.6202	25.01	-4.88	32787.600	4.0	88772.300	5.0
178.3823	18.02	-3.66	225402.590	3.0	281461.970	2.0	178.6234	23.02	-4.56	85524.000	2.5	141507.700	3.5
178.3867	24.03	-3.51	178036.000	4.5	234099.000	4.5	178.6263	30.02	-3.74	238205.500	1.0	294188.300	2.0
178.3870	38.01	-1.95	0.000	0.0	56057.897	0.0	178.6264	26.01	-1.96	16369.390	3.5	72352.170	3.5
178.3901	25.01	-1.40	37811.570	1.0	93868.500	1.0	178.6328	25.01	-1.90	32858.840	2.0	88839.600	1.0
178.3908	23.02	-1.38	99440.100	2.5	155496.600	1.5	178.6342	24.01	-9.21	12496.790	4.5	68477.110	4.5
178.3930	20.02	-1.78	225826.220	2.0	281882.240	2.0	178.6343	27.02	-.01	73726.600	2.5	129706.900	3.5
178.3934	25.01	-1.40	31661.720	3.0	87717.620	3.0	178.6362	26.02	-3.73	123697.180	2.0	179676.890	2.0
178.3937	29.02	-.88	80551.500	2.5	136607.300	2.5	178.6391	24.02	-1.49	97120.300	3.0	153099.100	4.0
178.3943	27.01	-2.41	5204.500	1.0	61260.100	2.0	178.6437	26.01	-3.97	13673.210	1.5	69650.540	2.5
178.3952	10.01	-3.57	246192.450	2.5	302247.780	3.5	178.6491	9.02	-.83	413143.860	3.5	469119.520	2.5
178.3953	24.02	-.33	117145.200	5.0	173200.500	5.0	178.6523	18.02	-2.62	187171.120	1.0	243145.760	2.0
178.4054	27.02	-.28	73540.200	3.5	129592.300	4.5	178.6584	18.01	-2.01	150147.620	2.5	206120.350	2.5
178.4055	26.02	-3.50	144332.210	4.0	200394.280	3.0	178.6651	26.02	-2.04	114339.950	4.0	170310.600	3.0
178.4087	14.00	-3.16	6298.850	2.0	62349.930	2.0	178.6655	26.00	-5.29	888.132	1.0	56858.650	2.0
178.4128	27.02	-3.09	71623.100	6.5	127672.900	6.5	178.6671	27.02	-.05	83773.400	1.5	139743.400	2.5
178.4138	23.01	-6.51	13594.730	2.0	69644.200	3.0	178.6745	25.02	-3.02	116580.170	1.5	172547.850	2.5
178.4171	23.02	-1.01	99804.570	2.5	155853.000	2.5	178.6751	26.01	-.63	23317.600	2.5	79285.100	2.5
178.4185	24.03	-.56	104265.000	2.5	160313.000	2.5	178.6764	24.02	-3.99	102099.600	4.0	158066.700	3.0
178.4257	9.02	-3.83	441276.720	2.5	497322.460	3.5	178.6832	26.01	-4.25	44784.780	2.5	100749.750	2.5
178.4276	26.01	-3.81	44446.890	3.5	100492.040	3.5	178.6853	26.02	-3.28	123697.180	2.0	179661.480	3.0
178.4310	9.02	-2.12	387726.840	4.5	443770.900	3.5	178.6866	25.01	-1.83	14781.190	2.0	70745.080	3.0
178.4343	22.02	-.39	77166.650	2.0	133209.700	3.0	178.6880	26.01	-3.91	36252.960	2.5	92216.420	1.5
178.4351	23.01	-2.93	20343.000	2.0	76385.800	3.0	178.6885	23.01	-5.53	8640.210	2.0	64603.530	3.0
178.4367	18.01	-2.34	147875.860	2.5	203918.150	1.5	178.6922	23.01	-2.14	8841.970	3.0	64804.130	2.0
178.4405	28.01	-4.27	53634.620	1.5	109675.720	.5	178.6924	28.02	-.27	55952.000	2.0	111914.100	2.0
178.4430	23.02	-.09	99941.200	3.5	155981.500	3.5	178.6953	56.01	-2.68	5674.824	0.0	61636.005	0.0
178.4470	25.01	-1.95	14901.180	1.0	70940.240	2.0	178.6998	26.01	-4.87	8846.760	.5	64806.520	.5
178.4503	25.01	-6.04	29951.120	1.0	85989.120	2.0	178.7033	26.02	-1.74	114351.920	3.0	170310.600	3.0
178.4513	26.02	-4.51	132104.940	2.0	188142.640	2.0	178.7040	25.01	-6.91	27570.950	5.0	83529.400	4.0
178.4546	26.02	-.89	66591.680	1.0	122628.340	2.0	178.7055	27.02	-.09	70934.100	2.5	126892.100	3.5
178.4551	17.01	-4.10	128621.900	1.0	184658.400	2.0	178.7067	27.02	-1.20	83773.400	1.5	139731.000	.5
178.4593	23.01	-3.86	13609.000	4.0	69644.200	3.0	178.7083	27.02	-.11	47698.600	1.5	103655.700	1.5
178.4615	25.03	-4.58	130969.500	3.0	187004.000	3.0	178.7090	25.03	-1.69	112882.800	5.0	168839.700	4.0
178.4627	26.02	-3.55	128917.510	2.0	184951.620	3.0	178.7096	25.01	-2.14	31760.930	2.0	87717.620	3.0
178.4639	26.02	-2.71	83429.610	6.0	139463.360	5.0	178.7122	24.02	-1.20	97358.700	4.0	153314.600	5.0
178.4640	25.02	-4.16	116580.170	1.5	172613.870	2.5	178.7124	18.01	-3.66	150147.620	2.5	206103.450	1.5
178.4645	26.01	-3.27	8391.920	2.5	64425.460	2.5	178.7153	23.02	-1.96	49327.740	2.5	105282.650	2.5
178.4651	25.01	-5.36	29919.220	2.0	85952.600	3.0	178.7182	24.02	-.52	117922.300	7.0	173876.300	7.0
178.4675	25.03	-.50	138123.100	6.0	194155.700	6.0	178.7201	24.02	-1.14	97618.300	5.0	153571.700	6.0
178.4701	28.02	-2.42	78303.100	2.0	134334.900	3.0	178.7204	24.01	-6.12	21824.250	.5	77777.580	.5
178.4707	29.02	-2.74	138084.000	2.5	194115.600	3.5	178.7222	24.01	-5.35	21824.820	1.5	77777.580	.5
178.4730	26.01	-3.75	21711.890	3.5	77742.780	2.5	178.7240	25.01	-2.54	14593.820	3.0	70546.020	4.0
178.4742	29.02	-1.98	139756.600	2.5	195787.100	3.5	178.7271	23.01	-4.04	16340.970	3.0	72292.200	4.0
178.4765	26.01	-4.81	36252.960	2.5	92282.760	3.5	178.7310	10.03	-3.29	643672.000	1.5	699622.000	1.5
178.4815	23.02	-5.03	42371.200	1.5	98399.420	.5	178.7310	10.03	-3.78	643672.000	1.5	699622.000	2.5
178.4861	26.02	-4.72	132104.940	2.0	188131.700	1.0	178.7326	22.02	-.50	77424.200	3.0	133373.700	4.0
178.4873	25.03	-1.96	137853.000	4.0	193879.400	5.0	178.7332	25.03	-.42	137930.100	5.0	193879.400	5.0
178.4908	28.02	-.29	82826.900	4.0	138852.200	3.0	178.7337	25.01	-1.25	33147.390	5.0	89096.560	4.0
178.5004	26.02	-2.77	143883.740	5.0	199906.030	6.0	178.7435	25.01	-7.74	27583.300	4.0	83529.400	4.0
178.5029	26.02	-1.60	84671.870	3.0	140693.360	3.0	178.7437	23.01	-5.81	8640.210	2.0	64586.230	2.0
178.5029	25.01	-1.90	32818.100	0.0	88839.600	1.0	178.7470	28.02	-1.05	83033.800	2.0	138978.800	1.0
178.5048	18.02	-2.95	186903.050	2.0	242923.960	1.0	178.7508	27.02	-.12	83799.600	2.5	139743.400	2.5
178.5054	27.02	-1.73	73726.600	2.5	129747.300	2.5	178.7558	26.02	-3.36	69695.730	4.0	125637.980	3.0
178.5058	25.01	-.97	37847.900	2.0	93868.500	1.0	178.7575	27.02	-.52	83789.300	.5	139731.000	.5
178.5101	9.01	-3.26	232063.340	1.0	288082.590	1.0	178.7592	25.01	-8.70	27588.230	3.0	83529.400	4.0
178.5105	27.02	-.20	83799.600	2.5	139818.700	3.5	178.7652	15.00	-.88	0.000	1.5	55939.300	.5
178.5127	9.01	-3.62	232064.160	2.0	288082.590	1.0	178.7668	30.02	-4.77	238336.200	2.0	294275.000	3.0
178.5181	25.01	-2.73	14325.860	4.0	70342.580	3.0	178.7706	25.02	-2.78	88880.080	2.5	144817.680	3.5
178.5204	10.03	-4.75	586918.000	2.5	642934.000	3.5	178.7714	9.02	-4.72	441385.880	1.5	497323.250	2.5
178.5214	30.02	-2.88	237642.700	3.0	293658.400	3.0	178.7717	18.01	-2.42	158730.210	2.5	214667.480	2.5
178.5271	25.02	-4.56	176464.780	3.5	232478.680	4.5	178.7732	27.02	-3.46	70934.100	2.5	126870.900	2.5
178.5271	26.01	-.75	23317.600	2.5	79331.490	3.5	178.7751	26.02	-3.59	144501.740	2.0	200437.940	2.0
178.5272	25.01	-2.72	35004.430	3.0	91018.300	3.0	178.7809	27.02	-1.84	72083.300	4.5	128017.700	3.5
178.5281	24.02	-1.69	117186.900	5.0	173200.500	5.0	178.7904	29.02	-1.29	80551.500	2.5	136482.900	1.5
178.5318	25.00	-2.21	0.000	2.5	56012.420	3.5	178.7924	12.02	-.48	478846.100	2.0	534776.900	2.0
178.5321	23.02	-2.05	42371.200	1.5	98383.530	2.5	178.7926	26.01	-5.00	21812.040	1.5	77742.780	2.5
178.5369	10.01	-2.79	246415.040	1.5	302425.870	1.5	178.7949	28.02					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
178.8675	25.02	-2.84	89052.440	3.5	144959.740	4.5	179.1370	12.02	-1.16	478374.500	1.0	534197.700	1.0
178.8678	26.00	-4.15	0.000	4.0	55907.220	5.0	179.1472	9.02	-1.24	360348.280	.5	416168.300	1.5
178.8696	26.02	-1.61	88663.870	4.0	144570.530	3.0	179.1514	24.01	-1.54	35607.600	3.5	91426.310	2.5
178.8731	26.00	-5.25	0.000	4.0	55905.560	4.0	179.1524	28.02	-1.50	83033.800	2.0	138852.200	3.0
178.8772	25.02	-2.37	116851.690	3.5	172755.950	3.5	179.1531	25.01	-1.75	33278.390	3.0	89096.560	4.0
178.8777	9.02	-2.00	387726.840	4.5	443630.960	3.5	179.1571	18.01	-1.74	149179.170	3.5	204996.090	3.5
178.8793	25.01	-1.16	14593.820	3.0	70497.440	4.0	179.1601	25.03	-4.27	131462.500	5.0	182728.500	5.0
178.8826	23.01	-6.09	13741.610	3.0	69644.200	4.0	179.1611	24.02	-3.18	56650.500	2.0	112466.200	3.0
178.8835	20.02	-2.04	272188.700	1.0	328090.990	2.0	179.1620	25.01	-6.38	29919.220	2.0	85734.620	3.0
178.8838	27.01	-4.45	24886.500	2.0	80788.700	2.0	179.1622	29.01	-2.61	85388.770	2.0	141204.100	3.0
178.8891	22.02	-2.58	77166.650	2.0	133067.200	2.0	179.1639	28.02	-4.14	55406.100	3.0	111220.900	3.0
178.8912	18.01	-2.93	149179.170	3.5	205079.070	2.5	179.1643	27.02	-3.29	72270.500	3.5	128085.200	2.5
178.8930	26.02	-1.75	79840.120	7.0	135739.470	6.0	179.1656	25.01	-1.48	33248.320	4.0	89062.600	5.0
178.8963	17.01	-2.28	128729.800	3.0	184628.100	4.0	179.1673	26.02	-2.70	144570.530	3.0	200384.280	3.0
178.8964	26.02	-3.99	141002.990	4.0	196901.270	5.0	179.1702	23.01	-2.94	19902.600	0.0	75715.450	1.0
178.8976	24.01	-5.84	11962.000	.5	67859.910	.5	179.1772	26.01	-4.30	23031.300	1.5	78841.970	.5
178.9035	23.02	-1.41	91710.430	3.5	147606.500	3.5	179.1788	28.01	-1.65	52738.450	2.5	108548.610	1.5
178.9066	27.02	.04	47698.600	1.5	103593.700	2.5	179.1797	11.02	-1.55	411963.900	1.5	467773.800	2.5
178.9077	26.02	-3.57	79844.740	6.0	135739.470	6.0	179.1842	26.02	-4.59	144586.830	5.0	200395.330	5.0
178.9084	26.01	-3.68	8391.920	2.5	64286.440	3.5	179.1845	24.02	-2.81	102099.600	4.0	157908.000	4.0
178.9142	10.01	-3.08	246415.040	1.5	302307.750	2.5	179.1873	26.02	-4.34	149285.000	3.0	205092.530	4.0
178.9160	26.02	-1.89	88694.670	5.0	144586.830	5.0	179.1890	24.02	-2.69	97120.300	3.0	152927.300	3.0
178.9165	24.02	-2.94	101745.300	3.0	157637.500	3.0	179.1952	26.02	-3.09	82382.870	3.0	138187.930	3.0
178.9203	24.01	-4.87	21822.860	2.5	77713.660	1.5	179.1970	27.02	-.93	83938.900	3.5	139743.400	2.5
178.9211	26.02	-3.63	79844.740	6.0	135735.310	5.0	179.2073	27.02	-4.74	76791.100	1.5	132592.400	1.5
178.9248	24.01	-8.90	21824.250	.5	77713.660	1.5	179.2078	26.02	-1.40	69836.830	3.0	125637.980	3.0
178.9255	28.01	-4.04	77736.790	4.5	133625.960	5.5	179.2108	26.02	-2.83	69837.760	2.0	125637.980	3.0
178.9266	24.01	-4.56	21824.820	1.5	77713.660	1.5	179.2126	25.02	-4.34	176464.780	3.5	232264.420	3.5
178.9373	27.02	-.34	73861.800	1.5	129747.300	2.5	179.2139	25.02	-3.40	176265.780	1.5	232065.030	2.5
178.9400	26.02	-3.41	69788.190	1.0	125672.830	2.0	179.2140	27.02	-.46	71873.700	5.5	127572.900	6.5
178.9402	7.01	-1.81	164610.760	1.0	220495.360	2.0	179.2163	27.01	-1.16	13261.100	2.0	69059.590	3.0
178.9468	26.02	-3.28	144501.740	2.0	200384.280	3.0	179.2165	18.01	-2.93	149179.170	3.5	204977.590	2.5
178.9486	26.02	-3.07	66464.640	3.0	122346.610	3.0	179.2224	29.02	-4.11	139756.600	2.5	195553.200	2.5
178.9496	23.02	.66	98383.530	2.5	154265.200	3.5	179.2250	24.01	-3.71	30143.720	5.5	85939.500	4.5
178.9528	26.01	-3.26	22810.330	3.5	78690.980	2.5	179.2281	23.02	-3.86	42267.400	2.5	98062.220	1.5
178.9537	26.02	-2.97	123750.390	3.0	179630.770	4.0	179.2362	25.02	-1.36	88880.080	2.5	144672.380	2.5
178.9539	28.02	-2.29	79143.300	2.0	135023.600	3.0	179.2362	25.01	-7.32	27583.300	4.0	83375.600	3.0
178.9555	27.02	-.98	83938.900	3.5	139818.700	3.5	179.2381	27.01	-3.64	9812.700	4.0	65604.300	3.0
178.9579	26.02	-2.77	79860.420	5.0	135739.470	6.0	179.2395	25.02	-2.75	117063.740	4.5	172855.020	4.5
178.9612	23.02	-.44	99804.570	2.5	155682.600	3.5	179.2396	28.01	-3.23	77736.790	4.5	133528.020	3.5
178.9616	10.01	-2.26	246597.710	.5	302475.610	.5	179.2399	25.02	-3.18	176970.010	5.5	232761.160	5.5
178.9623	25.01	-1.38	33248.320	4.0	89126.000	3.0	179.2407	27.02	-.32	47864.800	.5	103655.700	1.5
178.9632	23.01	-2.95	20343.000	2.0	76220.400	2.0	179.2413	26.00	-5.63	0.000	4.0	55790.720	3.0
178.9641	25.02	-3.57	116692.140	2.5	172569.270	1.5	179.2493	22.02	-.54	77421.480	2.0	133209.700	3.0
178.9651	28.01	-3.13	77332.470	2.5	133209.300	2.5	179.2494	28.02	-.14	86646.200	2.0	142434.400	2.0
178.9652	25.03	-1.55	112013.300	3.0	167890.100	2.0	179.2516	30.02	-3.20	238336.200	2.0	294123.700	3.0
178.9713	26.02	-4.56	79860.420	5.0	135735.310	5.0	179.2520	25.01	-8.21	27588.230	3.0	83375.600	3.0
178.9746	28.01	-1.34	71457.740	3.5	127331.600	2.5	179.2546	25.01	-9.49	27589.030	2.0	83375.600	3.0
178.9824	10.01	-4.39	249695.530	1.5	305566.940	1.5	179.2548	25.01	-3.17	36274.290	2.0	92060.800	1.0
178.9835	25.02	-3.88	116580.170	1.5	172451.230	1.5	179.2567	24.01	-4.90	20024.180	3.5	75810.100	4.5
178.9847	23.01	-4.97	16421.510	4.0	72292.200	4.0	179.2581	22.02	-1.65	77424.200	3.0	133209.700	3.0
178.9870	25.01	-5.98	29889.310	3.0	85759.300	4.0	179.2616	25.01	-6.15	29889.310	3.0	85673.720	4.0
178.9882	28.02	-.95	82277.000	1.0	138146.600	0.0	179.2641	25.02	-3.69	176695.060	4.5	232478.680	4.5
178.9894	26.01	-2.21	16369.390	3.5	72238.630	2.5	179.2658	26.01	-3.38	30764.460	3.5	86547.550	2.5
178.9952	26.02	-4.52	144570.530	3.0	200437.940	2.0	179.2675	28.01	-3.83	14995.570	2.5	70778.120	3.5
178.9985	28.02	-.72	82194.300	5.0	138060.700	5.0	179.2718	26.02	-1.81	84671.870	3.0	140453.100	3.0
179.0013	25.01	-3.47	29869.110	2.0	85734.620	3.0	179.2743	25.02	-.60	139902.060	5.5	195682.500	5.5
179.0043	18.01	-3.49	134241.650	2.5	190106.230	1.5	179.2747	18.01	-2.48	150474.900	1.5	206255.200	2.5
179.0123	23.02	-3.95	43942.490	1.5	99804.570	2.5	179.2766	18.01	-4.02	147227.970	1.5	203007.690	1.5
179.0160	18.01	-.89	163299.470	2.5	219160.400	2.5	179.2809	19.02	-.29	246625.600	1.5	302404.000	2.5
179.0206	24.02	-3.04	101443.700	2.0	157303.200	1.0	179.2854	26.02	-3.63	82410.940	2.0	138187.930	3.0
179.0238	28.02	-2.70	82172.900	3.0	138031.400	4.0	179.2886	23.02	-.65	97512.000	1.5	153288.000	1.5
179.0255	14.00	-3.33	6298.850	2.0	62156.816	2.0	179.2969	20.02	-2.18	272188.700	1.0	327962.110	1.0
179.0257	27.02	.50	76518.900	5.5	132376.800	6.5	179.2989	28.02	.14	79250.800	4.0	135023.600	3.0
179.0263	28.01	-4.25	77332.470	2.5	133190.190	1.5	179.3017	18.01	-1.52	149179.170	3.5	204951.090	3.5
179.0277	24.01	-2.80	35569.020	2.5	91426.310	2.5	179.3079	25.01	-1.52	30679.240	5.0	86449.240	0.0
179.0295	18.01	-3.97	135085.920	1.5	190942.650	.5	179.3088	38.01	-2.86	0.000	0.0	55769.710	0.0
179.0323	29.01	-3.06	85388.770	2.0	141244.600	1.0	179.3113	28.01	-4.59	75917.630	3.5	131686.560	4.5
179.0327	25.02	-2.62	116692.140	2.5	172547.850	2.5	179.3119	23.01	-3.50	20617.050	2.0	76385.800	3.0
179.0350	18.01	-4.41	147875.860	2.5	203730.860	1.5	179.3220	12.02	-1.24	474655.000	2.0	530420.600	1.0
179.0353	22.02	-3.13	76999.700	1.0	132854.600	1.0	179.3223	25.01	-2.47	36274.290	2.0	92039.800	2.0
179.0382	27.02	-4.02	82920.700	3.5	138774.700	2.5	179.3232	25.02	-1.22	89052.440	3.5	144817.680	3.5
179.0388	27.02	-.32	83773.400	1.5	139627.200	1.5	179.3255	23.02	-1.40	99804.570	2.5	155569.100	2.5
179.0401	28.02	.41	75646.900	4.0	131500.300	5.0	179.3310	23.01	-2.30	20622.990	3.0	76385.800	3.0
179.0449	25.03	.40	119961.500	3.0	175813.400	4.0	179.3329	28.01	-2.45	71457.740	3.5	127219.970	3.5
179.0567	25.01	-1.00	33248.320	4.0	89096.560	4.0	179.3330	25.02	-2.73	116851.690	3.5	172613.870	2.5
179.0587	25.01	-1.00	33278.390	3.0	89126.000	3.0	179.3350	23.01	-3.66	8841.970	3.0	64603.530	3.0
179.0651	29.01	-3.20	72724.000	2.0	128569.600	2.0	17						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
179.4101	26.01	-4.78	44753.820	3.5	100492.040	3.5	179.7042	10.03	-2.63	643975.000	2.5	699622.000	2.5
179.4129	26.02	-2.42	79844.740	6.0	135582.080	6.0	179.7083	22.02	.09	77421.480	2.0	133067.200	2.0
179.4155	25.01	-4.28	14781.190	2.0	70517.720	3.0	179.7091	27.02	-.60	78434.300	5.0	134079.800	1.5
179.4191	26.02	-.40	151537.800	4.0	202723.230	5.0	179.7092	18.01	-1.42	150474.900	1.5	206120.350	2.5
179.4206	23.02	-4.07	105282.650	2.5	161017.600	3.5	179.7171	22.02	-1.84	77424.200	3.0	133067.200	2.0
179.4231	20.02	-.41	272188.700	1.0	327922.870	2.0	179.7179	24.01	-3.68	30864.610	2.5	86507.390	2.5
179.4235	26.02	-.57	151534.130	3.0	207268.200	4.0	179.7196	10.01	-2.08	246415.040	1.5	302057.260	.5
179.4262	9.02	-1.91	360435.080	1.5	416168.300	1.5	179.7245	24.01	-4.21	30298.770	5.5	85939.500	4.5
179.4353	26.02	-1.27	151537.800	4.0	207268.200	4.0	179.7272	28.01	-4.05	14995.570	2.5	70635.460	2.5
179.4402	26.02	-1.12	151534.130	3.0	207263.000	3.0	179.7279	23.02	.46	106903.350	5.5	162543.000	5.5
179.4427	26.02	-.76	151534.900	2.0	207263.000	3.0	179.7294	28.01	-2.96	57080.550	3.5	112719.750	3.5
179.4440	24.01	-5.64	12148.000	2.5	67875.680	3.5	179.7348	26.02	-1.82	88694.670	5.0	144332.210	4.0
179.4497	23.02	-.94	89417.500	3.5	145143.430	4.5	179.7356	14.00	-3.67	6298.850	2.0	61936.130	1.0
179.4520	26.02	-2.44	151537.800	4.0	207263.000	3.0	179.7357	25.01	-2.55	14593.820	3.0	70231.070	2.0
179.4572	12.02	-.16	479456.000	1.0	535179.600	2.0	179.7414	22.01	.15	15257.530	4.5	70893.000	3.5
179.4594	27.02	-2.37	73214.500	.5	128937.400	.5	179.7423	28.01	-3.29	53634.620	1.5	109269.830	1.5
179.4595	26.02	-2.14	151534.130	3.0	207257.000	2.0	179.7496	14.03	-1.07	250008.140	1.5	305641.100	.5
179.4599	23.02	.96	106903.350	5.5	162626.100	6.5	179.7497	25.01	-3.30	36427.890	0.0	92060.800	1.0
179.4607	24.01	-7.65	12148.000	2.5	67870.500	1.5	179.7503	15.01	-1.20	76764.960	2.0	132397.700	2.0
179.4620	26.02	-1.14	151534.900	2.0	207257.000	2.0	179.7528	23.02	-3.87	85875.740	3.5	141507.700	3.5
179.4634	26.02	-1.75	79860.420	5.0	135582.080	6.0	179.7604	28.01	-2.09	52738.450	2.5	108368.050	2.5
179.4656	24.03	-3.83	177926.000	3.5	233647.000	3.5	179.7619	26.01	-6.91	13673.210	1.5	69302.350	1.5
179.4665	24.02	-1.47	56650.500	2.0	112371.200	2.0	179.7638	18.01	-2.50	150474.900	1.5	206103.450	1.5
179.4665	29.02	-2.57	63143.600	2.5	118864.300	3.5	179.7647	26.01	-5.48	13474.430	2.5	69102.690	2.5
179.4677	26.02	-1.00	151536.680	1.0	207257.000	2.0	179.7659	23.02	-1.59	99941.200	3.5	155569.100	2.5
179.4680	26.02	-4.58	82382.870	3.0	138103.120	4.0	179.7671	22.02	-.11	77746.180	3.0	133373.700	4.0
179.4686	24.01	-5.45	12148.000	2.5	67868.050	2.5	179.7675	22.01	-1.35	15265.600	3.5	70893.000	3.5
179.4722	24.01	-3.97	49646.250	3.5	105365.200	4.5	179.7681	23.01	-4.55	36.050	1.0	55663.270	1.0
179.4725	26.02	-2.72	144085.970	4.0	199804.810	4.0	179.7724	23.01	-2.80	20089.560	1.0	75715.450	1.0
179.4743	26.01	-4.23	30764.460	3.5	86482.750	3.5	179.7756	25.01	-1.91	33147.390	5.0	88772.300	5.0
179.4765	26.02	-2.14	151534.900	2.0	207252.500	1.0	179.7765	26.02	-1.15	93388.750	4.0	149013.360	4.0
179.4804	27.02	.34	85474.100	6.5	141190.500	5.5	179.7876	24.02	-2.67	97306.100	2.0	152927.300	3.0
179.4822	26.02	-1.30	151536.680	1.0	207252.500	1.0	179.7885	26.02	-2.44	93392.450	3.0	149013.360	4.0
179.4832	21.01	-8.37	0.000	1.0	55715.520	1.0	179.7893	11.01	-1.41	297639.340	2.0	353260.000	1.0
179.4862	26.02	-1.30	151537.910	0.0	207252.500	1.0	179.7916	25.02	-.50	89052.440	3.5	144672.380	2.5
179.4907	28.02	-.01	54657.900	4.0	110371.100	4.0	179.7924	24.00	-2.87	8307.570	4.0	63927.270	5.0
179.4913	24.02	-1.12	117487.500	6.0	173200.500	5.0	179.7947	24.03	-3.41	178036.000	4.5	233655.000	5.5
179.4971	28.01	-2.71	14995.570	2.5	70706.770	1.5	179.7950	25.02	-3.58	117063.740	4.5	172682.640	3.5
179.5023	19.02	-2.98	190916.000	1.5	246625.600	1.5	179.7989	17.02	-2.66	146749.900	2.5	202367.600	3.5
179.5043	28.01	-2.82	77736.790	4.5	133445.750	4.5	179.8049	26.02	-3.40	144085.970	4.0	199701.820	3.0
179.5065	30.02	-3.93	238336.200	2.0	294044.500	1.0	179.8070	27.02	.26	70934.100	2.5	126549.300	3.5
179.5098	26.01	-3.61	44784.780	2.5	100492.040	3.5	179.8141	25.02	-.39	89204.690	4.5	144817.680	3.5
179.5154	26.01	-3.95	45044.210	1.5	100749.750	2.5	179.8154	26.01	-.61	20516.980	2.5	76129.580	1.5
179.5184	28.02	-.62	81686.900	6.0	137391.500	6.0	179.8154	23.02	.76	85875.740	3.5	141488.320	4.5
179.5199	18.01	-2.86	163299.470	2.5	219003.600	2.5	179.8192	26.01	-1.41	18886.750	.5	74498.150	1.5
179.5255	26.02	-3.68	76956.790	3.0	132659.170	4.0	179.8205	24.03	-2.02	178036.000	4.5	233647.000	3.5
179.5257	18.01	-1.93	163299.470	2.5	219001.800	1.5	179.8223	23.02	-1.67	106903.350	5.5	162513.800	4.5
179.5295	25.02	-2.60	89307.220	5.5	145008.360	6.5	179.8252	20.02	-4.31	281139.550	1.0	336749.110	1.0
179.5339	25.02	-3.06	85077.090	4.5	140776.880	5.5	179.8282	10.01	-1.25	246192.450	2.5	301801.090	3.5
179.5347	18.01	-4.94	157233.930	3.0	212933.460	2.5	179.8314	15.01	-1.95	76764.960	2.0	132372.600	1.0
179.5368	30.02	-2.85	238336.200	2.0	294035.100	2.0	179.8343	26.02	-2.31	69836.630	3.0	125443.580	4.0
179.5388	23.01	-4.14	20522.140	1.0	76220.400	2.0	179.8370	28.02	-1.01	56308.200	1.0	111914.100	2.0
179.5400	27.02	-2.09	76791.100	1.5	132489.000	2.5	179.8373	23.01	-4.26	20242.320	4.0	75848.130	3.0
179.5445	25.01	-2.61	36364.300	1.0	92060.800	1.0	179.8375	28.01	-4.48	57080.550	3.5	112686.300	2.5
179.5451	24.02	-2.42	97618.300	5.0	153314.600	5.0	179.8429	28.01	-4.13	66571.340	2.5	122175.420	2.5
179.5456	25.02	-3.48	116851.690	3.5	172547.850	2.5	179.8453	23.01	-2.93	20617.050	2.0	76220.400	2.0
179.5475	26.01	-5.73	8391.920	2.5	64087.500	2.5	179.8495	23.01	-4.88	12545.150	4.0	68147.200	4.0
179.5508	23.02	-2.83	44110.040	2.5	99804.570	2.5	179.8499	18.02	-2.29	187823.050	2.0	243424.970	3.0
179.5526	26.02	-3.07	79860.420	5.0	135554.410	4.0	179.8553	25.02	-4.57	176464.780	3.5	232065.030	2.5
179.5572	24.01	-5.64	20024.180	3.5	75716.740	3.5	179.8584	26.03	-1.33	137947.500	1.5	193546.800	2.5
179.5583	25.02	-1.80	117063.740	4.5	172755.950	3.5	179.8645	23.01	-2.68	20622.990	3.0	76220.400	2.0
179.5583	23.02	-3.10	99804.570	2.5	155496.800	1.5	179.8693	18.02	-3.50	226503.220	3.0	282099.140	2.0
179.5584	25.01	-4.82	53781.700	3.0	109473.900	4.0	179.8700	28.01	-3.31	66579.710	1.5	122175.420	2.5
179.5622	23.02	-4.20	42371.200	1.5	98062.220	1.5	179.8709	29.01	-2.65	85388.770	2.0	140984.200	1.0
179.5648	23.02	-4.05	91710.430	3.5	147400.620	4.5	179.8709	26.01	-4.03	16369.390	3.5	71964.810	2.5
179.5658	25.03	.30	130969.500	3.0	186659.400	4.0	179.8711	23.02	-1.88	44345.820	3.5	99941.200	3.5
179.5661	24.02	-2.85	101745.300	3.0	157435.100	2.0	179.8758	29.02	-1.57	68963.600	2.5	124557.500	3.5
179.5687	11.05	-.45	817598.000	1.0	873287.000	2.0	179.8798	25.02	-1.01	121091.080	1.5	176683.760	2.5
179.5714	26.02	-3.68	144116.640	3.0	199804.810	4.0	179.8808	25.01	-2.83	35004.430	3.0	90596.800	2.0
179.5720	26.02	-2.95	86847.110	2.0	142535.070	2.0	179.8872	27.02	-1.04	73214.500	.5	128804.900	1.5
179.5721	22.02	-2.98	77166.650	2.0	132854.600	1.0	179.8885	27.02	-1.47	86283.800	4.5	141873.800	5.5
179.5800	25.03	.49	120603.100	4.0	176288.600	5.0	179.8885	7.02	-1.03	332796.600	.5	388388.600	.5
179.5816	26.01	-3.50	27620.390	2.5	83305.370	3.5	179.8888	25.03	.20	111710.400	2.0	167300.300	3.0
179.5915	26.00	-5.40	415.932	3.0	56097.850	3.0	179.9015	26.02	-4.96	151534.130	3.0	207120.100	2.0
179.5947	23.02	-3.56	86306.400	4.5	141987.320	3.5	179.9031	26.02	-4.32	151534.130	3.0	207119.600	3.0
179.6090	10.01	-2.34	251011.180	2.5	306687.670	3.5	179.9040	26.02	-4.58	151534.900	2.0	207120.100	2.0
179.6102	10.01	-3.37	251011.180	2.5	306687.290	2.5	179.9041	26.02	-2.91	144116.640	3.0	199701.820	3.0
179.6106	24.03	-.18	104637.000	3.5									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
179.9965	23.01	-4.72	106.630	2.0	55663.270	1.0	180.3231	26.02	-3.91	79860.420	5.0	135316.420	5.0
180.0031	28.02	-0.03	76237.800	3.0	131792.400	4.0	180.3233	26.01	-4.01	23031.300	1.5	78487.250	1.5
180.0034	28.02	-1.49	54657.900	4.0	110212.400	5.0	180.3241	26.01	-3.94	44232.510	4.5	99688.200	3.5
180.0052	23.02	.11	92052.550	4.5	147606.500	3.5	180.3261	25.02	-4.92	90936.220	1.5	146391.300	.5
180.0109	26.02	-2.07	144332.210	4.0	199884.390	5.0	180.3278	18.01	-3.96	158730.210	2.5	214184.790	3.5
180.0112	26.02	-3.80	144843.240	5.0	200395.330	5.0	180.3291	23.01	-3.84	13490.840	2.0	68945.000	3.0
180.0206	7.02	-0.82	323810.000	1.5	388359.200	1.5	180.3309	28.02	-3.78	83033.800	2.0	138487.400	3.0
180.0223	20.02	-0.96	226333.560	3.0	281882.240	2.0	180.3336	26.02	-0.82	88663.870	4.0	144116.640	3.0
180.0225	15.01	-0.71	76824.000	0.0	123272.600	1.0	180.3373	24.00	-7.98	0.000	3.0	55451.640	3.0
180.0248	26.01	-0.05	22939.350	2.5	78487.250	1.5	180.3407	7.02	-0.97	332860.300	3.5	388310.900	2.5
180.0361	18.01	-2.91	151087.250	2.5	206631.670	2.5	180.3413	26.02	-4.42	132659.170	4.0	188109.580	3.0
180.0404	14.00	-4.54	6298.850	2.0	61841.940	2.0	180.3414	23.01	-2.28	14461.730	3.0	69912.100	4.0
180.0441	26.01	-2.50	31387.980	2.5	86929.920	3.5	180.3430	25.01	-1.66	14781.190	2.0	70231.070	2.0
180.0478	27.02	-0.35	83773.400	1.5	139314.200	.5	180.3456	27.02	-2.26	82363.300	4.5	137812.400	3.5
180.0518	9.02	-1.32	413143.860	3.5	468683.430	2.5	180.3471	25.01	-8.27	29919.220	2.0	85367.850	2.0
180.0535	9.02	.17	413143.860	3.5	468682.910	3.5	180.3501	27.02	-1.85	70934.100	2.5	126381.800	1.5
180.0579	24.02	-3.00	102099.600	4.0	157637.300	3.0	180.3533	26.01	-1.72	31483.200	3.5	86929.920	3.5
180.0611	28.02	-1.56	78303.100	2.0	133839.800	1.0	180.3555	26.00	-0.74	0.000	4.0	55446.060	4.0
180.0616	18.01	-1.95	151087.250	2.5	206623.800	3.5	180.3651	16.01	-2.75	24524.900	.5	79968.000	.5
180.0650	12.02	.57	477435.700	2.0	532971.200	3.0	180.3706	7.02	-0.97	332832.000	2.5	388273.400	3.5
180.0691	24.00	-3.54	8307.570	4.0	63841.810	4.0	180.3730	10.01	-1.77	246415.040	1.5	301855.710	2.5
180.0724	28.01	-3.19	66579.710	1.5	122112.940	.5	180.3751	23.02	-1.04	98825.190	3.5	154265.200	3.5
180.0732	10.01	-1.63	246415.040	1.5	301948.000	1.5	180.3819	26.02	-4.56	131445.030	2.0	186882.980	3.0
180.0809	26.02	-2.67	134265.420	2.0	189796.030	1.0	180.3932	18.01	-3.47	163506.450	3.5	218940.900	4.5
180.0919	7.02	-0.88	328232.000	2.5	388359.200	1.5	180.3975	28.01	-2.06	77736.790	4.5	133169.920	3.5
180.0965	29.01	-1.66	69704.800	4.0	125230.600	3.0	180.3976	22.02	-3.48	77421.480	2.0	132854.600	1.0
180.0970	23.01	-3.93	12621.570	5.0	68147.200	4.0	180.3999	30.02	-3.06	238336.200	2.0	293768.600	1.0
180.0972	26.00	-4.65	0.000	4.0	55525.580	5.0	180.4072	25.02	-0.21	85346.720	6.5	140776.880	5.5
180.0994	27.02	-0.72	83789.300	.5	139314.200	.5	180.4081	26.00	-4.28	0.000	4.0	55429.890	5.0
180.1000	14.00	-5.73	6298.850	2.0	61823.550	2.0	180.4094	26.01	-5.54	13673.210	1.5	69102.690	2.5
180.1024	25.01	-2.33	33248.320	4.0	88772.300	5.0	180.4132	23.02	.86	86306.400	4.5	141734.730	5.5
180.1029	27.02	-0.93	76791.100	1.5	132314.900	.5	180.4143	24.01	-2.90	31083.110	1.5	86511.080	1.5
180.1036	25.01	-2.06	30684.810	1.0	86208.400	1.0	180.4168	23.02	-1.89	97512.000	1.5	152939.200	2.5
180.1049	12.02	-2.67	474655.000	2.0	530178.200	2.0	180.4180	26.02	-4.42	144968.500	4.0	200395.330	5.0
180.1075	26.01	-6.18	13904.870	.5	69427.270	.5	180.4207	24.02	-3.80	63172.200	2.0	118598.200	3.0
180.1123	26.02	-2.88	84159.550	4.0	139680.470	3.0	180.4231	18.01	-4.23	135085.920	1.5	190511.190	2.5
180.1153	24.03	-2.06	177926.000	3.5	233446.000	2.0	180.4264	24.01	-3.95	31083.110	1.5	86507.380	2.5
180.1182	26.02	-2.09	134265.420	2.0	189784.520	2.0	180.4334	26.02	-3.07	88663.870	4.0	144085.970	4.0
180.1192	30.02	-4.73	238205.500	1.0	293724.300	2.0	180.4356	18.01	-3.08	135085.920	1.5	190507.360	1.5
180.1218	18.01	-4.98	159393.310	1.5	214911.300	2.5	180.4406	26.03	-1.05	137698.900	.5	193118.800	.5
180.1307	28.01	-3.16	66571.340	2.5	122086.580	3.5	180.4469	22.01	-8.19	907.960	1.5	56325.940	2.5
180.1308	11.02	-0.88	406876.000	.5	462391.200	.5	180.4470	24.01	-8.45	11962.000	.5	67379.920	1.5
180.1315	9.03	-0.19	534686.000	1.0	590201.000	1.0	180.4473	28.01	-1.50	0.000	2.5	55417.830	3.5
180.1350	18.01	-3.08	148620.070	1.5	204133.980	2.5	180.4491	24.01	-3.75	35569.020	2.5	90986.310	3.5
180.1375	25.02	-1.45	139902.060	5.5	195415.200	4.5	180.4495	23.01	-2.20	8640.210	2.0	64057.390	3.0
180.1510	28.02	-0.49	62606.300	3.0	118115.300	2.0	180.4509	25.01	-7.67	29951.120	1.0	85367.850	2.0
180.1513	28.01	-4.25	66571.340	2.5	122080.250	2.5	180.4514	23.02	-0.03	91710.430	3.5	147127.000	2.5
180.1520	25.02	-4.05	176970.010	5.5	232478.680	4.5	180.4519	25.02	-0.45	121267.320	2.5	176683.760	2.5
180.1581	25.01	-3.01	30795.750	4.0	86302.550	3.0	180.4530	24.02	-2.82	97683.000	3.0	153099.100	4.0
180.1616	23.01	-1.85	9097.810	4.0	64603.530	3.0	180.4556	23.01	-2.58	20343.000	2.0	75758.290	2.0
180.1627	25.01	-1.73	30684.810	1.0	86190.180	2.0	180.4610	26.02	-1.97	134265.420	2.0	189679.070	3.0
180.1635	23.01	-1.66	20343.000	2.0	75848.130	3.0	180.4626	18.01	-2.91	134241.650	2.5	189654.780	2.5
180.1637	28.01	-4.68	66579.710	1.5	122084.790	1.5	180.4627	7.02	-0.19	332860.300	3.5	388273.400	3.5
180.1650	18.01	-4.14	147503.020	1.5	203007.690	1.5	180.4659	26.01	-4.17	45079.910	2.5	100492.040	3.5
180.1714	27.02	-1.68	77121.100	4.5	132623.800	3.5	180.4694	9.02	.62	413195.000	2.5	468606.050	3.5
180.1725	26.02	-2.10	93412.930	2.0	148915.300	1.0	180.4706	18.01	-2.74	135601.650	.5	191012.350	1.5
180.1773	7.02	-0.88	332810.000	1.5	388310.900	2.5	180.4756	23.02	-0.61	85524.000	2.5	140933.140	3.5
180.1778	26.02	-0.23	93512.640	4.0	149013.360	4.0	180.4825	26.01	-3.19	8680.470	1.5	64087.500	2.5
180.1784	28.01	-4.22	66579.710	1.5	122080.250	2.5	180.4849	24.02	-3.73	56992.200	3.0	112398.500	4.0
180.1791	26.01	-3.57	22637.190	4.5	78137.530	3.5	180.4887	25.00	-6.37	0.000	2.5	55405.140	2.5
180.1819	28.01	-3.61	54176.260	.5	109675.720	.5	180.4895	23.01	-4.74	20980.920	2.0	76385.800	3.0
180.1843	25.01	-2.77	29869.110	2.0	85367.850	2.0	180.4943	26.01	-2.35	31364.470	1.5	86767.870	2.5
180.1879	23.02	-3.05	43942.490	1.5	99440.100	2.5	180.4979	23.01	-2.46	13542.680	3.0	68945.000	3.0
180.1894	18.01	-1.75	163506.450	3.5	219003.600	2.5	180.4999	25.02	-1.64	140280.800	4.5	195682.500	5.5
180.1939	24.01	-3.92	35607.600	3.5	91103.360	4.5	180.5000	18.03	-3.22	250906.600	1.5	306308.250	1.5
180.1951	25.03	-3.44	193879.400	5.0	249374.800	6.0	180.5076	26.02	-3.68	145038.610	3.0	200437.940	2.0
180.2008	18.01	-2.12	148620.070	1.5	204113.710	1.5	180.5076	15.01	-0.96	76764.960	2.0	132164.300	2.0
180.2034	24.01	-2.72	156100.500	4.5	91103.360	4.5	180.5104	23.02	-2.64	44110.040	2.5	99508.500	1.5
180.2139	26.00	-4.43	415.932	3.0	55905.560	4.0	180.5112	26.01	-3.78	20516.980	2.5	75915.210	2.5
180.2149	25.03	-0.44	131170.100	4.0	186659.400	4.0	180.5136	26.01	-5.61	13904.870	.5	69302.350	1.5
180.2177	9.02	.05	413195.000	2.5	468683.430	2.5	180.5159	26.02	-4.83	66522.950	2.0	121919.740	3.0
180.2194	9.02	-1.31	413195.000	2.5	468682.910	3.5	180.5171	16.01	-2.39	24571.600	1.5	79968.000	.5
180.2224	29.02	-3.18	67016.600	3.5	122503.600	3.5	180.5194	24.01	-2.35	35707.660	5.5	91103.360	4.5
180.2231	28.01	-3.15	57420.160	2.5	112906.930	1.5	180.5198	27.01	-6.60	25147.200	4.0	80542.800	3.0
180.2258	25.02	-2.23	85077.090	4.5	140563.030	3.5	180.5228	23.02	-0.25	85875.740	3.5	141270.400	3.5
180.2289	24.03	-1.50	178036.000	4.5	233521.000	4.5	180.5231	26.02	-1.98	84369.920	2.0	139764.480	2.0
180.2362	25.01	-3.55	27588.230	3.0	83070.970	2.0	180.5242	28.01	-3.41	76402.030	2.5	131796.260	2.5
180.2376	26.02	-3.71	144843.240	5.0	200325.560	4.0	180.5255	26.00	-5.44	704			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
180.6302	26.02	-4.72	141539.550	6.0	196901.270	5.0	180.9198	28.02	-1.43	63472.600	2.0	118745.700	3.0
180.6360	23.01	-3.94	12545.150	4.0	67905.100	3.0	180.9203	23.02	-1.04	91710.430	3.5	146983.380	2.5
180.6383	18.01	-2.54	159706.460	.5	215065.710	.5	180.9250	18.01	-3.14	148842.370	2.5	204113.710	1.5
180.6454	26.02	-3.86	144968.500	4.0	200325.560	4.0	180.9268	26.02	-2.76	89697.520	3.0	144968.500	4.0
180.6460	28.02	-.79	78482.900	1.0	133839.800	1.0	180.9319	26.01	-.59	21308.080	1.5	76577.500	.5
180.6466	25.02	-.27	85200.760	5.5	140557.460	4.5	180.9336	28.02	-1.04	55952.000	2.0	111220.900	3.0
180.6489	23.01	-1.12	14556.090	4.0	69912.100	4.0	180.9347	23.01	-2.13	13490.840	2.0	68759.400	1.0
180.6535	24.01	-5.92	12032.720	1.5	67387.300	2.5	180.9351	23.02	-.46	85875.740	3.5	141144.170	4.5
180.6537	23.02	-2.20	89417.500	3.5	144772.020	3.5	180.9386	25.01	-4.32	39813.380	2.0	95080.760	1.0
180.6542	24.01	-4.51	30219.040	4.5	85573.420	3.5	180.9398	26.02	-4.90	131445.030	2.0	186712.020	1.0
180.6566	24.01	-4.12	19631.280	1.5	74984.930	1.5	180.9426	28.01	-1.61	57420.160	2.5	112686.300	2.5
180.6596	25.01	-3.41	27583.300	4.0	82936.010	3.0	180.9431	25.01	-1.04	30795.750	4.0	80601.750	3.0
180.6610	29.02	-3.12	140200.900	1.5	195553.200	2.5	180.9431	10.03	-4.37	586918.000	2.5	642184.000	1.5
180.6633	12.02	-1.94	478846.100	2.0	534197.700	1.0	180.9453	22.01	-6.16	983.800	2.5	56249.110	1.5
180.6649	23.04	.57	293859.500	1.5	349210.600	2.5	180.9461	26.02	-4.06	146891.040	3.0	202156.130	2.0
180.6649	15.01	-.70	76813.220	1.0	132164.300	2.0	180.9623	18.01	-4.93	157673.320	2.5	212932.320	1.5
180.6675	10.01	-2.39	246597.710	.5	301948.000	1.5	180.9634	25.01	-1.97	27570.950	5.0	82830.750	4.0
180.6676	23.01	-4.21	13594.730	2.0	68945.000	3.0	180.9660	18.01	-4.85	157673.320	2.5	212932.320	1.5
180.6686	25.01	-3.71	27589.030	2.0	82939.000	1.0	180.9743	23.01	-1.73	14655.630	5.0	69912.100	4.0
180.6688	26.02	-1.17	84159.550	4.0	139509.440	5.0	180.9790	26.02	-1.02	89783.590	4.0	145038.610	3.0
180.6727	28.01	-3.23	76402.030	2.5	131750.730	3.5	180.9790	23.01	-1.96	13542.680	3.0	68797.700	2.0
180.6748	23.02	-2.28	92052.550	4.5	147400.620	4.5	180.9817	25.01	-3.95	39826.570	1.0	95080.760	1.0
180.6757	25.01	-3.28	27588.230	3.0	82936.010	3.0	180.9854	23.03	-.45	96196.100	1.0	151449.100	0.0
180.6776	24.01	-5.53	12032.720	1.5	67379.920	1.5	180.9861	28.01	-1.84	78955.450	1.5	134208.300	2.5
180.6783	25.01	-4.03	27589.030	2.0	82936.010	3.0	180.9869	24.01	-5.15	25035.640	.5	80288.250	1.5
180.6791	26.02	-4.32	131445.030	2.0	186791.780	2.0	180.9903	10.01	-3.18	251011.180	2.5	306262.770	1.5
180.6800	26.02	-3.31	141539.550	6.0	196886.010	6.0	180.9919	24.02	-4.15	63172.200	2.0	118423.300	2.0
180.6815	11.05	-.64	950367.000	1.0	1005713.000	2.0	180.9981	25.01	-1.86	14901.180	1.0	70150.390	1.0
180.6815	10.03	-1.46	524391.000	.5	579737.000	.5	181.0030	23.01	-4.23	13511.710	1.0	68759.400	1.0
180.6826	26.02	-2.47	145038.610	3.0	200384.280	3.0	181.0038	25.01	-3.97	27583.300	4.0	82830.750	4.0
180.6833	28.01	-3.81	66579.710	1.5	121925.160	.5	181.0065	26.02	-1.94	134549.380	1.0	189796.030	1.0
180.6855	8.01	-4.73	203942.210	.5	259287.000	1.5	181.0092	24.01	-5.44	12148.000	2.5	67393.800	3.5
180.6941	22.01	-6.67	983.800	2.5	56325.940	2.5	181.0114	24.01	-4.22	25043.100	1.5	80288.250	1.5
180.6949	26.02	-2.92	141539.550	6.0	196881.470	7.0	181.0132	23.02	-4.27	42267.400	2.5	97512.000	1.5
180.6972	27.01	-3.16	9812.700	4.0	65153.900	4.0	181.0141	24.02	-3.86	97683.000	3.0	152927.300	3.0
180.6974	22.01	-6.91	907.960	1.5	56249.110	1.5	181.0184	23.01	-6.67	106.630	2.0	55349.630	3.0
180.6976	26.02	-2.02	89697.520	3.0	145038.610	3.0	181.0200	25.01	-3.39	27588.230	3.0	82830.750	4.0
180.6979	18.01	-3.81	135601.650	.5	190942.650	.5	181.0239	26.01	-3.13	44446.890	3.5	99688.200	3.5
180.6987	22.01	.05	15265.600	3.5	70606.350	2.5	181.0243	24.01	-4.71	25047.040	2.5	80288.250	1.5
180.6992	26.01	-2.70	44232.510	4.5	99573.110	4.5	181.0259	27.02	-.95	77383.100	3.5	132623.800	3.5
180.6998	11.02	-1.63	416910.200	.5	472250.600	.5	181.0299	23.01	-2.58	20980.920	2.0	76220.400	2.0
180.7065	26.00	-6.88	415.932	3.0	55754.290	2.0	181.0299	17.02	-2.37	146525.600	1.5	201765.100	2.5
180.7077	9.03	.03	534686.000	1.0	590024.000	2.0	181.0305	24.01	-5.76	12148.000	2.5	67387.300	2.5
180.7092	28.03	-3.13	120901.800	3.5	176239.320	2.5	181.0315	23.02	-1.88	43942.490	1.5	99181.500	1.5
180.7142	23.01	-1.76	13609.000	4.0	68945.000	3.0	181.0324	22.01	-5.78	1087.210	3.5	56325.940	2.5
180.7165	28.02	-2.21	61339.200	4.0	116674.500	4.0	181.0380	15.01	-4.59	21576.200	0.0	76813.220	1.0
180.7223	28.02	.51	81686.900	6.0	137020.400	5.0	181.0409	23.01	-2.75	20522.140	1.0	75758.290	2.0
180.7242	26.02	-3.53	83358.880	2.0	138691.810	1.0	181.0427	27.02	-.08	91715.100	2.5	146950.700	2.5
180.7336	23.02	-1.78	44110.040	2.5	99440.100	2.5	181.0429	26.02	-3.06	134549.000	3.0	189784.520	2.0
180.7337	20.01	-1.11	25191.510	.5	80521.530	1.5	181.0442	26.02	-2.59	134549.380	1.0	189784.520	2.0
180.7341	25.01	-1.76	14901.180	1.0	70231.070	2.0	181.0444	28.01	-4.38	76402.030	2.5	131637.100	3.5
180.7348	18.03	-4.18	250906.600	1.5	306236.280	2.5	181.0446	24.03	-.02	104637.000	3.5	159872.000	4.5
180.7352	25.01	-4.28	27588.230	3.0	82917.780	2.0	181.0446	10.03	-2.41	524391.000	.5	579626.000	1.5
180.7379	25.01	-2.48	27589.030	2.0	82917.780	2.0	181.0450	25.02	-4.75	120974.250	.5	176209.150	1.5
180.7393	28.01	-4.71	78955.450	1.5	134283.760	.5	181.0466	27.02	-.72	72083.300	4.5	127317.700	3.5
180.7429	26.01	-4.80	22810.330	3.5	78137.530	3.5	181.0470	26.02	-2.22	144570.530	3.0	199804.810	4.0
180.7478	24.01	-2.36	19528.380	.5	74854.080	.5	181.0486	28.02	.51	82826.900	4.0	138060.700	5.0
180.7551	26.01	-3.30	38164.240	2.5	93487.710	3.5	181.0512	16.01	-6.27	24524.900	.5	79757.900	1.5
180.7576	18.02	-2.27	187823.050	2.0	243145.760	2.0	181.0537	10.01	-2.08	251011.180	2.5	306262.770	1.5
180.7593	30.02	-3.16	236336.200	2.0	293658.400	3.0	181.0547	24.01	-7.97	12148.000	2.5	67379.920	1.5
180.7606	27.02	-.19	73214.500	.5	128536.300	.5	181.0566	26.01	-3.67	38164.240	2.5	93395.600	2.5
180.7625	26.02	-.87	137947.500	1.5	193268.700	1.5	181.0575	23.01	-4.21	20617.050	2.0	75848.130	3.0
180.7631	22.02	-.92	77746.180	3.0	133067.200	2.0	181.0581	23.03	-.47	96196.100	1.0	151427.000	1.0
180.7635	12.02	-.43	479456.000	1.0	534776.900	2.0	181.0674	26.02	-3.77	132785.360	4.0	188013.400	4.0
180.7642	23.02	-2.40	85875.740	3.5	141196.430	2.5	181.0689	26.02	-3.06	63496.000	3.0	118721.600	2.0
180.7691	26.02	-4.80	144586.830	5.0	199906.030	6.0	181.0707	26.02	-3.44	63496.560	2.0	118721.600	2.0
180.7708	26.02	-2.48	134360.400	4.0	189679.070	3.0	181.0714	23.02	-.14	85524.000	2.5	140750.820	2.5
180.7730	24.03	-4.03	177926.000	3.5	233244.000	4.5	181.0749	23.02	-.19	98062.220	1.5	153288.000	1.5
180.7737	26.01	-2.20	7955.240	3.5	63273.030	2.5	181.0759	25.02	-.24	84981.630	3.5	140207.090	2.5
180.7743	25.02	-2.30	89204.690	4.5	144522.300	4.5	181.0770	23.01	-.95	20622.990	3.0	75848.130	3.0
180.7822	22.01	-6.94	907.960	1.5	56223.133	.5	181.0830	24.02	-4.71	99840.700	3.0	155064.000	4.0
180.7849	23.02	-1.33	89457.670	2.5	144772.020	3.5	181.0836	25.03	-4.22	193760.700	4.0	248983.800	5.0
180.7882	20.02	-1.46	225826.220	2.0	281139.550	1.0	181.0840	10.03	-4.39	586685.000	1.5	641908.000	.5
180.7899	25.02	-1.35	84981.630	3.5	140294.440	3.5	181.0846	24.01	-2.52	19631.280	1.5	74854.080	.5
180.7936	24.01	-6.37	12032.720	1.5	67344.220	2.5	181.0865	28.01	-1.40	71457.740	3.5	126679.980	4.5
180.7973	26.02	-1.71	84369.920	2.0	139680.470	3.0	181.0869	12.02	-3.95	531563.000	4.0	586785.100	3.0
180.8004	14.01	-.11	0.000	.5	55309.610	1.5	181.0942	26.02	-3.06	88663.870	4.0	143883.740	5.0
180.8094	23.01	-2.64	13490.840	2.0	68797.700	2.0	181.0943	26.02	-1.12	63466.390	5.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
181.1646	24.01	-5.77	20518.330	3.5	75716.740	3.5	181.3869	26.02	-1.13	89907.850	4.0	145038.610	3.0
181.1654	26.01	-6.96	22939.350	2.5	78137.530	3.5	181.3870	23.02	-1.46	43942.490	1.5	99073.230	.5
181.1656	25.02	-1.55	84981.630	3.5	140179.740	2.5	181.3881	25.01	.05	54938.100	1.0	110068.500	2.0
181.1678	25.02	-3.96	121267.320	2.5	176464.780	3.5	181.3885	17.01	-2.38	131768.000	2.0	186898.300	3.0
181.1686	28.02	.52	82194.300	5.0	137391.500	6.0	181.3892	26.02	-3.30	134549.000	3.0	189679.070	3.0
181.1689	28.02	-.51	78303.100	2.0	133500.200	2.0	181.3899	25.02	-3.00	90936.220	1.5	146066.070	1.5
181.1689	27.02	-.64	83773.400	1.5	138970.500	1.5	181.3919	25.01	-2.42	27583.300	4.0	82712.550	3.0
181.1696	24.01	-4.63	20519.850	4.5	75716.740	3.5	181.3937	28.01	-1.98	53634.620	1.5	108763.320	.5
181.1696	25.03	-1.88	131462.500	5.0	186659.400	4.0	181.4011	25.02	-4.01	120974.250	.5	176100.710	.5
181.1706	11.02	.01	440472.000	2.5	495668.600	2.5	181.4018	26.02	-1.52	83138.230	5.0	138264.470	6.0
181.1712	24.01	-6.36	12148.000	2.5	67344.420	2.5	181.4019	26.01	-1.90	44446.890	3.5	99573.110	4.5
181.1768	26.02	-1.41	90423.680	2.0	145618.390	2.0	181.4058	25.02	-1.24	140557.460	4.5	195682.500	5.5
181.1814	23.01	-1.91	20522.140	1.0	75715.450	1.0	181.4079	27.02	-.97	71873.700	5.5	126998.100	4.5
181.1840	18.01	-4.31	147227.970	.5	202420.490	.5	181.4079	14.00	-.91	6298.850	2.0	61423.230	3.0
181.1849	26.02	-1.97	63494.000	3.0	118686.250	4.0	181.4081	25.01	-3.13	27588.230	3.0	82712.550	3.0
181.1904	25.01	-1.97	14959.840	0.0	70150.390	1.0	181.4108	25.01	-4.53	27589.030	2.0	82712.550	3.0
181.1927	26.02	-.73	73727.640	2.0	128917.510	2.0	181.4113	25.02	-4.93	121267.320	2.5	176390.670	2.5
181.1933	24.01	-2.87	19528.380	.5	74718.050	1.5	181.4121	26.02	-2.33	76956.790	3.0	132079.910	3.0
181.1946	23.01	-1.88	9097.810	4.0	64287.100	5.0	181.4198	25.02	-1.20	140294.440	3.5	195415.200	4.5
181.1953	26.02	-2.74	88694.670	5.0	143883.740	5.0	181.4220	27.02	.01	77472.300	2.5	132592.400	1.5
181.1955	24.03	-3.15	127202.000	4.5	182391.000	4.5	181.4246	28.01	-3.43	66579.710	1.5	121699.020	1.5
181.1978	28.02	-1.89	75123.800	5.0	130312.100	4.0	181.4287	25.02	-4.51	121091.080	1.5	176209.150	1.5
181.2024	24.01	-3.47	19798.010	2.5	74984.930	1.5	181.4288	26.01	-3.75	31811.870	2.5	86929.920	3.5
181.2042	25.01	-1.84	31022.050	0.0	86208.400	1.0	181.4294	18.02	-1.38	226355.960	2.0	281473.820	3.0
181.2044	16.01	-4.05	24571.000	1.5	79757.900	1.5	181.4318	26.02	-3.07	69837.760	2.0	124954.880	1.0
181.2047	24.01	-5.05	12148.000	2.5	67334.200	3.5	181.4329	23.02	-1.16	92052.550	4.5	147169.340	3.5
181.2048	25.00	-6.39	0.000	2.5	55186.170	2.5	181.4349	27.02	-3.43	72341.900	1.5	127458.100	1.5
181.2064	25.01	-3.25	27589.030	2.0	82774.730	1.0	181.4349	11.02	-1.41	440552.400	3.5	495668.600	2.5
181.2067	28.01	-1.15	13550.390	3.5	68735.980	2.5	181.4364	26.02	-3.27	69788.190	1.0	124903.920	2.0
181.2090	26.02	-2.83	89783.590	4.0	144968.500	4.0	181.4409	28.01	-4.12	75917.630	3.5	131032.010	2.5
181.2099	23.01	-2.84	8841.970	3.0	64026.600	4.0	181.4418	26.01	-4.98	38214.500	1.5	93328.600	1.5
181.2150	26.01	-3.67	31364.470	1.5	86547.550	2.5	181.4465	25.01	-1.20	30523.450	6.0	85636.100	6.0
181.2157	20.02	-1.22	227388.560	2.0	282571.430	1.0	181.4495	20.01	-.86	25414.400	1.5	80526.160	2.5
181.2170	23.01	-1.22	14461.730	3.0	69644.200	3.0	181.4527	18.01	-4.99	148620.070	1.5	203730.860	1.5
181.2185	28.02	-.38	78657.800	0.0	133839.800	1.0	181.4545	18.01	-3.14	135085.920	1.5	190196.160	.5
181.2188	23.02	-.10	86306.400	4.5	141488.320	4.5	181.4555	27.01	-6.78	25861.460	0.0	80971.400	1.0
181.2201	23.02	.96	86809.390	5.5	141990.910	6.5	181.4603	24.01	-5.89	11962.000	.5	67070.430	1.5
181.2211	27.02	-1.83	83789.300	.5	138970.500	1.5	181.4634	25.00	-5.72	0.000	2.5	55107.520	3.5
181.2262	26.01	-2.31	31364.470	1.5	86544.140	1.5	181.4647	20.01	-1.81	25414.400	1.5	80521.530	1.5
181.2278	25.02	-4.03	121091.080	1.5	176270.250	2.5	181.4674	25.02	-2.57	89204.690	4.5	143311.000	5.5
181.2320	24.02	-3.88	63420.300	3.0	118598.200	3.0	181.4678	17.01	-2.65	131754.800	1.0	186861.000	2.0
181.2346	27.02	-1.04	71873.700	5.5	127050.800	4.5	181.4684	18.02	-2.58	226355.960	2.0	281461.970	2.0
181.2360	23.01	-4.07	8640.210	2.0	63816.900	3.0	181.4688	27.02	-.13	77383.100	3.5	132489.000	2.5
181.2392	26.01	-2.44	31368.450	.5	86544.140	1.5	181.4737	25.03	-4.43	193879.400	5.0	248983.800	5.0
181.2402	27.02	-1.83	77411.600	5.5	132587.000	4.5	181.4820	24.00	-7.79	0.000	3.0	55101.870	3.0
181.2406	9.02	-4.97	442147.190	2.5	497322.460	3.5	181.4837	14.02	-3.83	175263.100	1.0	230364.460	0.0
181.2425	25.02	-.49	121091.080	1.5	176265.780	1.5	181.4852	18.02	-3.11	187823.050	2.0	242923.960	1.0
181.2471	18.01	-2.65	134241.650	2.5	189414.960	3.5	181.4866	27.02	.33	91715.100	2.5	146815.600	3.5
181.2481	24.03	.52	127218.000	3.5	182391.000	4.5	181.4900	26.01	-3.09	44232.510	4.5	99331.950	4.5
181.2537	26.03	-1.07	137947.500	1.5	193118.800	.5	181.4925	23.02	-.52	86306.400	4.5	141405.100	5.5
181.2546	28.02	-.50	121566.700	1.0	176737.700	0.0	181.4935	23.01	-1.45	20617.050	2.0	75715.450	1.0
181.2550	27.02	-.01	83799.600	2.5	138970.500	1.5	181.5032	23.01	-5.64	208.890	3.0	55304.340	4.0
181.2563	28.02	-.13	121412.200	2.0	176582.700	1.0	181.5047	24.03	-.10	104265.000	2.5	159360.000	3.5
181.2646	18.01	-2.23	151087.250	2.5	206255.230	2.5	181.5054	26.01	-3.46	31387.980	2.5	86482.750	3.5
181.2688	26.02	-2.54	69788.190	1.0	124954.880	1.0	181.5060	27.02	-.68	77411.600	5.5	132506.200	5.5
181.2738	10.01	-2.47	251522.120	1.5	306687.290	2.5	181.5070	23.02	-1.12	44345.820	3.5	99440.100	2.5
181.2746	24.01	-5.16	21822.860	2.5	76987.780	2.5	181.5094	28.01	-3.80	54176.260	.5	109269.830	1.5
181.2754	23.01	-4.50	13594.730	2.0	68759.400	1.0	181.5113	17.01	-3.15	131768.000	2.0	186861.000	2.0
181.2757	28.02	-.16	79250.800	4.0	134415.400	4.0	181.5119	27.02	-2.30	76791.100	1.5	131883.900	2.5
181.2765	26.01	-3.96	38164.240	2.5	93328.600	1.5	181.5125	26.02	-1.75	84671.870	3.0	139764.480	2.0
181.2811	24.01	-5.15	21824.820	1.5	76987.780	2.5	181.5183	26.02	-1.60	63466.390	5.0	118577.250	5.0
181.2851	26.02	-1.52	82382.870	3.0	137544.600	2.0	181.5183	11.01	-1.81	298169.140	1.0	353260.000	1.0
181.2878	25.02	-3.79	121480.240	3.5	176641.140	3.5	181.5217	24.01	-5.61	12303.980	3.5	67393.800	3.5
181.2902	23.01	-5.70	339.210	4.0	55499.380	5.0	181.5218	28.02	-1.93	79143.300	2.0	134233.100	2.0
181.2910	24.01	-4.89	31351.150	2.5	86511.080	1.5	181.5228	17.01	-3.14	131754.800	1.0	186844.300	1.0
181.2963	26.02	-.63	69695.730	4.0	124854.040	3.0	181.5241	25.01	.13	55115.800	2.0	110204.900	3.0
181.2963	18.01	-3.09	151087.250	2.5	206245.570	3.5	181.5274	23.01	-1.84	14556.090	4.0	69644.200	3.0
181.3011	25.01	-1.88	30795.750	4.0	85952.600	3.0	181.5287	28.02	-.10	78303.100	2.0	133390.800	3.0
181.3014	18.01	-1.93	154181.430	4.5	209338.210	3.5	181.5307	28.02	-1.28	82277.000	1.0	137364.100	1.0
181.3025	18.01	-.28	154181.430	4.5	209337.870	4.5	181.5318	24.01	-2.14	19631.280	1.5	74718.050	1.5
181.3032	24.01	-1.63	31351.150	2.5	86507.380	2.5	181.5320	26.00	-6.21	704.003	2.0	55790.720	3.0
181.3034	26.01	-2.18	31387.980	2.5	86544.140	1.5	181.5386	26.01	-5.56	20830.520	2.5	75915.210	2.5
181.3039	27.02	-.28	77121.100	4.5	132277.100	3.5	181.5406	28.02	-.47	79250.800	4.0	134334.900	3.0
181.3066	23.03	-.44	96412.100	2.0	151567.300	2.0	181.5411	26.01	-.97	20516.980	2.5	75600.930	3.5
181.3139	28.01	-2.28	67694.640	2.5	122847.600	3.5	181.5432	24.01	-6.44	12303.980	3.5	67387.300	2.5
181.3150	24.00	-8.34	0.000	3.0	55152.630	2.0	181.5454	18.01	-2.18	155043.070	2.5	210125.700	2.5
181.3171	27.01	-7.10	25147.200	4.0	80299.200	4.0	181.5539	25.01	-2.00	30679.240	5.0	85759.300	4.0
181.3187	27.02	.26	77472.300	2.5	132623.800	3.5	181.5540	25.02	-1.52	80200.760	5.5</		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
181.6327	24.01	-3.94	21822.860	2.5	76879.030	3.5	181.9015	11.02	-1.34	440472.000	2.5	495446.800	3.5
181.6329	23.01	-3.91	13741.610	3.0	68797.700	2.0	181.9055	38.01	-1.19	23715.190	0.0	78688.789	0.0
181.6406	28.01	-4.23	67031.020	.5	122084.790	1.5	181.9078	27.02	-1.32	73286.000	4.5	128258.900	5.5
181.6498	22.02	-4.88	78158.710	4.0	133209.700	3.0	181.9105	29.02	-4.16	142426.300	2.5	197398.400	2.5
181.6508	25.01	-4.82	33147.390	5.0	86198.070	6.0	181.9154	18.02	-2.78	226503.220	3.0	281473.820	3.0
181.6519	25.02	-1.08	139857.840	4.5	194908.200	5.5	181.9174	24.03	.38	109950.000	2.5	164920.000	3.5
181.6521	26.00	-7.27	704.003	2.0	55754.290	2.0	181.9257	27.02	-6.62	72083.300	4.5	127050.800	4.5
181.6537	9.02	-2.68	389525.550	1.5	444575.350	2.5	181.9273	28.02	.41	79250.800	4.0	134217.800	5.0
181.6540	26.02	-1.67	82494.880	1.0	137544.600	2.0	181.9333	27.02	-4.01	77411.600	5.5	132376.800	6.5
181.6543	24.01	-5.58	12303.980	3.5	67353.600	4.5	181.9335	23.01	-6.29	339.210	4.0	55304.340	4.0
181.6553	23.02	-2.32	86938.010	2.5	141987.320	3.5	181.9340	28.02	-1.25	55406.100	3.0	110371.100	4.0
181.6613	18.01	-3.58	154203.970	3.5	209251.460	3.5	181.9343	26.02	-2.28	83138.230	5.0	138103.120	4.0
181.6623	26.03	-1.59	138336.300	2.5	193383.500	3.5	181.9356	24.02	-3.23	100099.500	4.0	155064.000	4.0
181.6623	27.02	-4.74	72270.500	3.5	127317.700	3.5	181.9369	27.02	-1.15	77622.900	4.5	132587.000	4.5
181.6649	18.01	-3.35	150147.620	2.5	205194.040	1.5	181.9369	18.01	-4.77	147503.020	1.5	202467.140	1.5
181.6701	26.02	-3.63	83646.980	1.0	138691.810	1.0	181.9373	23.02	-1.76	86304.400	4.5	141270.400	3.5
181.6709	18.01	-1.55	154203.970	3.5	209248.550	2.5	181.9378	9.02	-7.71	389525.550	1.5	444489.400	2.5
181.6725	24.02	-2.56	57422.100	4.0	112466.200	3.0	181.9388	25.01	-2.14	30795.750	4.0	85759.300	4.0
181.6744	9.02	-4.77	442278.930	2.5	497322.460	3.5	181.9406	24.03	-1.36	177926.000	3.5	232889.000	3.5
181.6776	25.02	-3.56	139857.840	4.5	194900.400	5.5	181.9413	25.02	-4.61	84981.630	3.5	139944.400	3.5
181.6823	26.02	-3.62	144843.240	5.0	199884.390	5.0	181.9453	26.02	-2.67	144843.240	5.0	199804.810	4.0
181.6837	11.02	-1.15	442710.500	1.5	497751.200	.5	181.9477	11.01	-2.25	299889.160	1.0	354850.000	1.0
181.6846	24.01	-6.96	12303.980	3.5	67344.420	2.5	181.9483	26.02	-5.54	88923.070	6.0	143883.740	5.0
181.6856	26.02	-1.77	82382.870	3.0	137423.000	3.0	181.9519	23.01	-4.37	9097.810	4.0	64057.390	3.0
181.6861	25.01	-1.80	34910.430	4.0	89950.400	3.0	181.9523	28.03	-2.13	120901.800	3.5	175861.270	3.5
181.6869	25.01	-4.91	43370.370	3.0	98410.100	2.0	181.9546	18.02	-3.40	226503.220	3.0	281461.970	2.0
181.6885	26.01	-2.81	44784.780	2.5	99824.040	2.5	181.9555	12.02	-2.46	531833.100	3.0	586791.600	2.0
181.6909	25.01	-1.06	34761.810	5.0	89800.340	4.0	181.9609	25.01	-1.06	30679.240	5.0	85636.100	6.0
181.6923	14.01	.13	287.320	1.5	55325.440	2.5	181.9633	26.02	-1.59	63486.780	4.0	118442.920	3.0
181.6934	24.01	-6.97	12032.720	1.5	67070.480	1.5	181.9638	26.01	-2.64	31811.870	2.5	86767.870	2.5
181.6973	28.02	-4.94	78303.100	2.0	133339.700	1.0	181.9677	18.01	-3.41	149179.170	3.5	204133.980	2.5
181.7013	23.01	-7.21	106.630	2.0	55142.010	3.0	181.9713	26.02	-4.96	87901.870	3.0	142855.590	4.0
181.7047	25.01	-2.80	27570.950	5.0	82605.290	4.0	181.9727	26.02	-1.18	84671.870	3.0	139625.170	4.0
181.7085	25.02	-4.23	85173.880	1.5	140207.090	2.5	181.9747	25.01	-1.18	55115.800	2.0	110068.500	2.0
181.7088	18.01	-4.51	151087.250	2.5	206120.350	2.5	181.9762	26.02	-1.34	114325.350	5.0	169277.600	4.0
181.7091	23.01	-2.57	9097.810	4.0	64130.840	4.0	181.9769	24.01	-5.00	12496.790	4.5	67448.820	4.5
181.7183	24.01	-5.12	12303.980	3.5	67334.200	3.5	181.9770	12.02	-2.12	531833.100	3.0	586785.100	3.0
181.7186	26.00	-5.94	415.932	3.0	55446.060	4.0	181.9794	25.02	-2.11	89307.220	5.5	144258.500	6.5
181.7203	26.02	-2.51	77075.300	1.0	132104.940	2.0	181.9834	26.02	-1.85	83237.860	3.0	138187.930	3.0
181.7240	26.02	-3.64	146891.040	3.0	201919.530	4.0	181.9836	10.03	-2.71	524676.000	1.5	579626.000	1.5
181.7335	18.01	-3.30	147227.970	.5	202253.590	1.5	181.9872	26.02	-3.36	63494.000	3.0	118442.920	3.0
181.7372	26.01	-2.35	31364.470	1.5	86388.980	.5	181.9891	26.02	-3.80	63494.560	2.0	118442.920	3.0
181.7445	14.01	-4.84	287.320	1.5	55309.610	1.5	181.9908	26.02	-2.56	70725.010	3.0	125672.830	2.0
181.7451	25.01	-4.82	32836.400	1.0	87858.510	2.0	181.9916	29.02	-3.46	142426.300	2.5	197373.900	3.5
181.7455	25.01	-2.96	27583.300	4.0	82605.290	4.0	181.9955	12.02	-1.28	531833.100	3.0	586779.500	4.0
181.7503	26.01	-2.45	31368.450	.5	86388.980	.5	181.9970	25.01	-3.26	35004.430	3.0	89950.400	3.0
181.7511	18.01	-2.37	135085.920	1.5	190106.230	1.5	181.9979	26.03	-4.93	138841.300	3.5	193787.000	4.5
181.7514	27.02	-4.33	86327.100	3.5	141347.300	4.5	182.0008	12.02	-1.45	531833.100	3.0	586777.900	3.0
181.7524	25.01	-2.21	54938.100	1.0	109958.000	0.0	182.0012	9.02	-1.18	389525.550	1.5	444470.240	1.5
181.7528	25.01	-4.47	30523.450	6.0	85543.230	5.0	182.0027	25.02	-6.67	120974.250	.5	175918.500	.5
181.7541	27.02	-1.15	76518.900	5.5	131538.300	4.5	182.0065	27.02	-5.53	73861.800	1.5	128804.900	1.5
181.7564	28.01	-3.30	0.000	2.5	55018.710	2.5	182.0107	25.02	-3.20	121267.320	2.5	176209.150	1.5
181.7591	28.01	-1.71	78955.450	1.5	133973.330	2.5	182.0113	26.02	-1.42	83161.480	4.0	138103.120	4.0
181.7610	28.02	-4.11	78482.900	1.0	133500.200	2.0	182.0205	25.01	-1.80	30795.750	4.0	85734.620	3.0
181.7613	26.02	-4.91	69836.830	3.0	124854.040	3.0	182.0245	26.02	-1.98	114339.950	4.0	169277.600	4.0
181.7618	25.01	-3.14	27588.230	3.0	82605.290	4.0	182.0299	28.01	-3.58	51045.460	4.5	105981.500	4.5
181.7620	23.01	-6.62	8640.210	2.0	63657.200	2.0	182.0320	26.02	-1.63	89907.850	4.0	144843.240	5.0
181.7630	27.02	-4.14	77472.300	2.5	132489.000	2.5	182.0320	26.02	-1.72	89907.850	5.0	144843.240	5.0
181.7633	24.02	-4.63	63038.600	1.0	118055.200	1.0	182.0337	25.01	-4.86	31514.350	4.0	86449.240	4.0
181.7644	26.02	-1.94	69837.760	2.0	124854.040	3.0	182.0354	26.01	-2.53	44753.820	3.5	99688.200	3.5
181.7646	18.01	-3.48	151087.250	2.5	206103.450	1.5	182.0395	23.01	-6.18	208.890	3.0	55142.010	3.0
181.7653	28.02	-4.72	121566.700	1.0	176582.700	1.0	182.0418	26.01	-5.41	22810.330	3.5	77742.780	2.5
181.7679	17.02	-1.01	146749.900	2.5	201765.100	2.5	182.0419	26.03	-4.58	138336.300	2.5	193268.700	1.5
181.7689	23.03	-4.15	96412.100	2.0	151427.000	1.0	182.0419	12.02	-2.24	479265.300	0.0	534197.700	1.0
181.7783	26.02	-1.62	82410.940	2.0	137423.000	3.0	182.0451	18.01	-2.10	150147.620	2.5	205079.070	2.5
181.7837	23.01	-6.78	339.210	4.0	55349.630	3.0	182.0472	26.01	-2.29	31999.120	3.5	86929.920	3.5
181.7845	5.00	-1.78	0.000	.5	55010.181	.5	182.0498	25.01	-4.83	32787.600	4.0	87717.620	3.0
181.7864	25.02	-3.52	121091.080	1.5	176100.710	.5	182.0504	26.02	-1.24	63425.170	6.0	118355.010	6.0
181.7886	24.01	-7.22	12496.790	4.5	67506.340	5.5	182.0539	23.01	-3.67	9097.810	4.0	64026.600	4.0
181.7898	26.02	-3.19	84671.870	3.0	139680.470	3.0	182.0642	26.02	-1.80	114351.920	3.0	169277.600	4.0
181.7956	14.00	-2.23	6298.850	2.0	61305.670	1.0	182.0645	25.01	-1.05	43484.500	2.0	98410.100	2.0
181.7979	25.02	-1.68	139902.060	5.5	194908.200	5.5	182.0653	23.02	-1.18	86809.390	5.5	141734.730	5.5
181.7988	25.02	-4.05	85173.880	1.5	140179.740	2.5	182.0689	25.01	-2.47	30523.450	6.0	85447.700	5.0
181.8083	24.02	-4.50	63420.300	3.0	118423.300	2.0	182.0748	24.01	-5.87	12148.000	2.5	67070.480	1.5
181.8085	25.02	-4.38	121267.320	2.5	176270.250	2.5	182.0797	28.02	-2.11	121566.700	1.0	176487.700	2.0
181.8099	26.02	-2.37	77102.430	2.0	132104.940	2.0	182.0797	10.03	-4.01	642934.000	3.5	697855.000	2.5
181.8131	24.01	-4.89	36101.820	3.5	91103.360	4.5	182.0797	10.03	-2.66	642934.000	3.5	697855.000	3.5
181.8139	27.02	-2.21	83773.400	1.5	138774.700	2.5							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
182.1722	26.02	-1.60	83161.480	4.0	138054.590	5.0	182.4102	26.01	-1.86	21308.080	1.5	76129.580	1.5
182.1737	28.01	-2.47	77332.470	2.5	132225.150	1.5	182.4154	26.01	-7.16	23317.600	2.5	78137.530	3.5
182.1769	27.02	.28	82920.700	3.5	137812.400	3.5	182.4167	26.02	-3.55	145618.390	2.0	200437.940	2.0
182.1779	25.03	-1.47	112408.900	4.0	167300.300	3.0	182.4175	26.01	-3.18	44753.820	3.5	99573.110	4.5
182.1819	20.02	-1.81	327962.110	1.0	382852.300	2.0	182.4311	23.01	-3.64	8841.970	3.0	63657.200	2.0
182.1828	25.01	-2.38	34910.430	4.0	89800.340	4.0	182.4338	26.02	-4.09	147614.650	2.0	202429.040	1.0
182.1871	26.02	-1.44	63466.390	5.0	118355.010	6.0	182.4340	23.02	-.81	86716.840	1.5	141531.170	1.5
182.1873	23.02	-.91	98399.420	.5	153288.000	1.5	182.4388	28.01	-4.68	75917.630	3.5	130730.530	2.5
182.1935	24.02	-1.37	119039.900	5.0	173926.600	6.0	182.4457	26.00	-7.88	0.000	4.0	54810.820	4.0
182.1955	29.02	-2.74	142512.300	1.5	197398.400	2.5	182.4515	11.02	-4.54	411963.900	1.5	466773.000	1.5
182.1989	26.01	-2.38	44446.890	3.5	99331.950	4.5	182.4525	24.02	-1.17	65890.900	3.0	120699.700	3.0
182.2008	24.01	-3.44	36101.820	3.5	90986.310	3.5	182.4525	27.02	-1.81	72083.300	4.5	126892.100	3.5
182.2030	26.02	-2.04	63466.390	5.0	118350.240	4.0	182.4541	26.02	-4.19	134976.220	3.0	189784.520	2.0
182.2035	28.01	-3.66	75917.630	3.5	130801.330	4.5	182.4570	26.02	-3.83	124854.040	3.0	179661.480	3.0
182.2048	27.02	-.48	77622.900	4.5	132506.200	5.5	182.4604	17.02	-1.07	146525.600	1.5	201332.000	1.5
182.2058	24.02	-4.83	63172.200	2.0	118055.200	1.0	182.4656	24.01	-4.86	19631.280	1.5	74436.140	2.5
182.2064	27.02	-.19	72341.900	1.5	127224.700	.5	182.4658	27.02	-1.38	77472.300	2.5	132277.100	3.5
182.2083	26.02	-2.91	92523.910	5.0	147406.140	5.0	182.4664	26.02	-3.44	124954.880	1.0	179759.490	2.0
182.2121	26.01	-1.73	8391.920	2.5	63273.030	2.5	182.4677	26.02	-.83	89697.520	3.0	144501.740	2.0
182.2188	26.01	-2.08	8680.470	1.5	63559.560	.5	182.4677	25.01	-4.98	27583.300	4.0	82387.530	3.0
182.2207	25.01	.07	55115.800	2.0	109994.300	1.0	182.4702	18.01	-1.56	150147.620	2.5	204951.090	3.5
182.2217	27.02	-.79	71623.100	6.5	126501.300	5.5	182.4703	26.01	-4.17	22939.350	2.5	77742.780	2.5
182.2224	26.02	-1.00	73727.640	2.0	128605.650	1.0	182.4710	26.02	-1.25	89783.590	4.0	144586.830	5.0
182.2225	25.01	-1.74	30795.750	4.0	85673.720	4.0	182.4715	26.02	-4.54	132079.910	3.0	186882.980	3.0
182.2258	23.02	-1.22	98062.220	1.5	152939.200	2.5	182.4724	23.01	-5.58	339.210	4.0	55142.010	3.0
182.2282	28.01	-1.90	52205.950	3.5	107082.210	2.5	182.4841	25.01	-2.55	27588.230	3.0	82387.530	3.0
182.2283	25.02	-2.88	84981.630	3.5	139857.840	4.5	182.4843	18.01	-2.98	134241.650	2.5	189040.870	1.5
182.2321	23.02	-.81	85875.740	3.5	140750.820	2.5	182.4867	25.01	-3.66	27589.030	2.0	82387.530	3.0
182.2333	27.01	-6.44	27469.200	5.0	82343.900	4.0	182.4874	27.02	-.35	73726.600	2.5	128524.900	2.5
182.2354	26.01	-2.80	45044.210	1.5	99918.300	1.5	182.4927	13.01	-2.75	95546.800	3.0	150343.500	2.0
182.2390	26.02	-4.21	89697.520	3.0	144570.530	3.0	182.4927	13.01	-1.58	95546.800	3.0	150343.500	3.0
182.2403	26.02	-3.62	147556.450	1.0	202429.040	1.0	182.4927	13.01	-.14	95546.800	3.0	150343.500	4.0
182.2405	24.01	-5.19	12496.790	4.5	67369.330	5.5	182.4954	25.01	-3.50	35004.430	3.0	98800.340	4.0
182.2455	14.00	-2.94	0.000	0.0	54871.031	1.0	182.4961	25.02	-4.67	177269.340	1.5	232065.030	2.5
182.2499	17.02	-.06	147497.900	4.5	202367.600	3.5	182.4964	13.01	-1.21	95547.900	2.0	150343.500	2.0
182.2516	17.02	-3.91	204021.600	.5	258890.800	1.5	182.4964	13.01	-.67	95547.900	2.0	150343.500	3.0
182.2522	26.02	-3.19	147161.360	4.0	202030.380	3.0	182.4981	26.01	-2.07	20805.830	4.5	75600.930	3.5
182.2567	23.01	-5.07	339.210	4.0	55206.870	5.0	182.4994	13.01	-.48	95548.800	1.0	150343.500	2.0
182.2579	25.02	-1.23	85077.090	4.5	139944.400	3.5	182.5020	14.00	-3.00	77.115	1.0	54871.031	1.0
182.2582	23.01	-3.26	20980.920	2.0	75848.130	3.0	182.5028	25.01	-2.43	33147.390	5.0	87941.080	4.0
182.2588	15.01	-2.38	76764.960	2.0	131632.000	3.0	182.5063	25.01	-4.25	32787.600	4.0	87580.230	4.0
182.2593	20.02	-1.75	281882.240	2.0	336749.110	1.0	182.5064	28.01	-1.59	51045.460	4.5	105838.060	3.5
182.2613	23.02	-.30	98399.420	.5	153265.700	.5	182.5087	28.02	-.32	78303.100	2.0	133095.000	3.0
182.2617	26.00	-7.65	888.132	1.0	55754.290	2.0	182.5087	28.02	-1.14	82172.900	3.0	136964.800	3.0
182.2647	26.02	-1.66	83237.860	3.0	138103.120	4.0	182.5113	25.02	-4.66	177687.540	3.5	232478.680	4.5
182.2680	24.01	-5.41	12148.000	2.5	67012.280	2.5	182.5181	25.01	-4.65	52383.720	4.0	107172.800	3.0
182.2689	25.01	-1.35	30679.240	5.0	85543.230	5.0	182.5211	25.01	-1.46	31514.350	4.0	86302.550	3.0
182.2707	26.02	-1.61	63486.780	4.0	118350.240	4.0	182.5233	25.01	-4.70	31661.720	3.0	86449.240	4.0
182.2796	26.01	-3.66	44232.510	4.5	99093.290	5.5	182.5244	25.02	-4.84	177477.230	2.5	232264.420	3.5
182.2835	27.01	-4.55	27484.300	3.0	82343.900	4.0	182.5253	26.02	-2.07	89783.590	4.0	144570.530	3.0
182.2862	25.01	-4.15	32858.840	2.0	87717.620	3.0	182.5262	28.01	-3.64	25036.380	2.5	79823.030	3.5
182.2875	26.02	-3.15	131445.030	2.0	186303.440	3.0	182.5281	22.02	-.27	80938.020	1.0	135724.100	2.0
182.2882	26.02	-3.68	134937.840	2.0	189796.030	1.0	182.5326	26.01	-1.97	8680.470	1.5	63465.190	1.5
182.2897	25.02	-.69	140557.460	4.5	195415.200	4.5	182.5328	24.01	-2.89	0.000	2.5	54784.670	3.5
182.2925	24.02	-2.45	65890.900	3.0	120747.800	4.0	182.5343	10.01	-1.01	274364.570	2.5	329148.670	1.5
182.2928	24.01	-5.46	12496.790	4.5	67353.600	4.5	182.5347	10.01	-2.15	274364.570	2.5	329148.670	2.5
182.2928	26.02	-3.43	124903.920	2.0	179760.720	3.0	182.5364	27.02	.21	78927.800	3.5	133711.400	2.5
182.2928	28.02	-1.55	78482.900	1.0	133339.700	1.0	182.5454	11.02	-2.53	410987.900	3.5	465768.800	2.5
182.2947	26.02	-2.12	63494.000	3.0	118350.240	4.0	182.5459	25.02	-2.00	85077.090	4.5	139857.840	4.5
182.2969	26.02	-4.33	124903.920	2.0	179759.490	2.0	182.5474	27.02	-.80	72270.500	3.5	127050.800	4.5
182.2981	28.02	-1.41	78303.100	2.0	133158.300	3.0	182.5489	26.01	-2.07	45044.210	1.5	99824.040	2.5
182.3012	26.02	-4.92	142047.000	4.0	196901.270	5.0	182.5516	26.02	-4.07	124903.920	2.0	179682.940	1.0
182.3052	25.01	-1.27	43557.030	1.0	98410.100	2.0	182.5549	26.02	-4.14	132104.940	2.0	186882.980	3.0
182.3054	24.03	-2.94	178036.000	4.5	232889.000	3.5	182.5570	23.01	-6.16	36.050	1.0	54813.450	0.0
182.3055	24.01	-3.11	19631.280	1.5	74484.250	2.5	182.5571	23.01	-1.60	20980.920	2.0	75758.290	2.0
182.3058	28.02	.43	61339.200	4.0	116192.100	4.0	182.5583	26.02	-1.70	66464.640	3.0	121241.670	4.0
182.3074	27.02	.28	71623.100	6.5	126475.500	6.5	182.5593	26.02	-3.83	124854.040	3.0	179630.770	4.0
182.3081	27.02	.49	76518.900	5.5	131371.100	5.5	182.5601	23.02	-2.31	86938.010	2.5	141714.500	2.5
182.3082	25.02	-3.78	140563.030	3.5	195415.200	4.5	182.5661	18.01	-1.73	155351.030	1.5	210125.700	2.5
182.3157	25.01	-4.35	34910.430	4.0	89760.330	5.0	182.5718	26.02	-3.58	124903.920	2.0	179676.890	2.0
182.3205	18.01	-1.74	150147.620	2.5	204996.090	3.5	182.5803	26.01	-3.35	20830.520	2.5	75600.930	3.5
182.3217	25.01	-1.68	33147.390	5.0	87995.500	5.0	182.5806	25.02	-2.72	94850.660	1.5	149621.000	.5
182.3233	28.01	-3.58	75917.630	3.5	130765.260	3.5	182.5840	23.03	.12	96798.000	3.0	151567.300	2.0
182.3264	26.02	-2.80	134937.840	2.0	189784.520	2.0	182.5847	28.02	-1.72	86646.200	2.0	141415.300	1.0
182.3450	27.02	-3.78	85517.300	5.5	140358.400	4.5	182.5859	26.01	-3.49	31999.120	3.5	86767.870	2.5
182.3490	28.01	-3.89	75917.630	3.5	130757.510	4.5	182.5868	25.01	-1.25	30679.240	5.0	85447.700	5.0
182.3506	24.01	-7.90	12032.720	1.5	66872.120	.5	182.5870	23.02	-2.92	87218.920	3.5	141987.320	3.5
182.3513	22.01	-1.96	4628.610	2.5	59467.810	3.5	182.5896	5.00	-.8				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
182.6680	26.01	-2.65	45079.910	2.5	99824.040	2.5	182.9093	24.02	-2.33	66027.800	4.0	120699.700	3.0
182.6684	25.01	-4.48	36274.290	2.0	91018.300	3.0	182.9127	26.01	-2.05	31811.870	2.5	68482.750	3.5
182.6741	11.01	-1.37	300107.710	2.0	354850.000	1.0	182.9167	26.02	-1.02	73935.960	0.0	128605.650	1.0
182.6761	12.02	-0.58	479456.000	1.0	534197.700	1.0	182.9171	26.02	-1.44	63494.000	3.0	118163.560	2.0
182.6770	25.02	-2.89	94771.470	2.5	149512.900	1.5	182.9171	28.01	-3.59	66571.340	2.5	121240.900	3.5
182.6777	26.02	-3.16	134937.840	2.0	189679.070	3.0	182.9176	25.01	-2.99	55759.270	3.0	110428.700	4.0
182.6794	27.02	-2.08	82920.700	3.5	137661.400	4.5	182.9190	26.02	-2.06	63494.560	2.0	118163.560	2.0
182.6796	10.01	-2.31	251522.120	1.5	306262.770	1.5	182.9208	18.01	-4.12	147875.860	2.5	202544.320	2.5
182.6818	24.03	-0.49	110700.000	3.5	165440.000	4.5	182.9224	28.01	-4.82	67031.020	5.5	121699.020	1.5
182.6832	10.01	-0.86	274409.110	3.5	329148.670	2.5	182.9243	18.02	-2.33	231341.800	2.0	286009.210	2.0
182.6892	23.01	-7.54	2604.820	1.0	57342.590	2.0	182.9262	24.00	-3.44	8095.210	3.0	62762.060	4.0
182.6901	24.02	-2.64	66027.800	4.0	120765.300	5.0	182.9307	25.01	-4.39	37851.150	3.0	92516.650	4.0
182.6933	24.00	-9.82	0.000	3.0	54736.550	4.0	182.9317	28.02	-4.53	75646.900	4.0	130312.100	4.0
182.6962	26.01	-0.67	31811.870	2.5	86547.550	2.5	182.9345	22.02	-0.45	80938.020	1.0	135602.400	1.0
182.6994	26.01	-2.30	7955.240	3.5	62689.960	2.5	182.9353	26.02	-1.80	134360.400	4.0	189024.530	5.0
182.7000	23.01	-1.22	20980.920	2.0	75715.450	1.0	182.9384	26.02	-2.78	145038.610	3.0	199701.820	3.0
182.7037	28.01	-3.04	53634.620	1.5	108368.050	2.5	182.9388	27.02	-1.32	73861.800	1.5	128524.900	2.5
182.7064	9.02	-0.22	389737.630	5.5	444470.240	1.5	182.9401	25.01	-1.22	33278.390	3.0	87941.080	4.0
182.7076	26.01	-4.24	31811.870	2.5	86544.140	1.5	182.9402	26.02	-1.15	89907.850	4.0	144570.530	3.0
182.7078	25.01	-0.68	55696.500	4.0	110428.700	4.0	182.9416	25.02	-3.23	94850.660	1.5	149512.900	1.5
182.7095	27.02	-0.11	73286.000	4.5	128017.700	3.5	182.9438	15.01	-4.12	77711.000	2.0	132372.600	1.0
182.7115	26.02	-4.47	147161.360	4.0	201892.440	5.0	182.9450	25.01	-2.46	27570.950	5.0	82322.180	5.0
182.7183	23.02	-1.61	98383.530	2.5	153112.600	3.5	182.9471	25.01	-1.18	34910.430	4.0	89571.030	3.0
182.7216	26.02	-3.60	124954.880	1.0	179682.940	1.0	182.9498	28.03	-1.84	120901.800	3.5	175561.600	4.5
182.7232	27.02	-1.82	72270.500	3.5	126998.100	4.5	182.9508	8.01	-1.84	203942.210	5.5	258601.700	1.5
182.7295	27.01	-6.87	27902.500	4.0	82628.200	3.0	182.9518	28.01	-3.54	68131.210	3.5	122790.410	4.5
182.7335	24.02	-0.87	56650.500	2.0	111375.000	3.0	182.9543	22.02	-0.34	80943.950	0.0	135602.400	1.0
182.7376	25.01	-3.70	32856.950	3.0	87580.230	4.0	182.9589	25.02	-0.54	85200.760	5.5	139857.840	4.5
182.7385	24.03	-0.13	104637.000	3.5	159360.000	3.5	182.9610	28.01	-3.94	66571.340	2.5	121227.800	2.5
182.7418	26.02	-3.54	124954.880	1.0	179676.890	2.0	182.9639	23.01	-9.05	2687.010	2.0	57342.590	2.0
182.7442	10.01	-2.58	251522.120	1.5	306263.420	2.5	182.9676	27.02	-0.01	79425.300	2.5	134079.800	1.5
182.7448	25.02	-3.47	89898.080	5.5	144619.190	1.5	182.9686	27.02	-1.32	77622.900	4.5	132277.100	3.5
182.7485	24.01	-3.96	31219.490	4.5	85939.500	4.5	182.9761	25.01	-1.14	30795.750	4.0	85447.700	5.0
182.7485	24.02	-1.08	66027.800	4.0	120747.800	4.0	182.9778	26.02	-3.09	134360.400	4.0	189011.840	4.0
182.7504	18.01	-4.62	154203.970	3.5	208923.410	2.5	182.9789	24.02	-0.75	56992.200	3.0	111643.300	4.0
182.7514	18.01	-2.20	150474.900	1.5	205194.040	1.5	182.9860	25.03	-4.56	193739.600	2.0	248388.600	3.0
182.7516	23.01	-3.80	9097.810	4.0	63816.900	3.0	182.9864	25.01	-4.32	27583.300	4.0	82232.180	5.0
182.7533	26.02	-3.95	70725.010	3.0	125443.580	4.0	182.9866	28.02	-1.10	84604.800	1.0	139253.600	2.0
182.7557	23.01	-5.59	0.000	0.0	54717.850	1.0	182.9890	28.01	-3.21	66579.710	1.5	121227.800	2.5
182.7606	28.01	-3.08	68131.210	3.5	122847.600	3.5	182.9897	14.00	-2.92	223.157	2.0	54871.031	1.0
182.7647	23.02	-4.29	44110.040	2.5	98825.190	3.5	182.9951	26.02	-4.98	151534.130	3.0	206180.410	3.0
182.7658	26.02	-4.54	70728.750	4.0	125443.580	4.0	182.9957	18.01	-3.69	147503.020	1.5	202149.110	2.5
182.7667	25.02	-3.61	94906.450	5.5	149621.000	5.5	182.9970	27.02	-2.95	72341.900	1.5	126987.600	1.5
182.7697	24.01	-2.05	36272.660	4.5	90986.310	3.5	182.9977	26.03	-2.12	137947.500	1.5	192593.000	2.5
182.7726	26.01	-2.06	8846.760	5.5	63559.560	5.5	183.0004	28.02	-0.22	62606.300	3.0	117251.000	3.0
182.7743	15.04	-2.48	391101.700	5.5	445814.000	1.5	183.0010	28.01	-2.17	70358.940	4.5	125003.440	5.5
182.7759	26.01	-2.26	45206.490	5.5	99918.300	1.5	183.0027	23.02	-1.97	106441.310	4.5	161085.300	4.5
182.7770	26.01	-5.09	23031.300	1.5	77742.780	2.5	183.0059	20.02	-1.09	227432.110	1.0	282075.150	0.0
182.7789	18.02	-1.70	188714.050	3.0	243424.970	3.0	183.0071	28.02	-0.07	63472.600	2.0	118115.300	2.0
182.7876	24.01	-5.93	12303.980	3.5	67012.280	2.5	183.0074	26.02	-4.34	151537.800	4.0	206180.410	3.0
182.7905	26.02	-2.40	135088.600	0.0	189796.030	1.0	183.0074	24.02	-1.45	100421.400	5.0	155064.000	4.0
182.7912	25.02	-3.39	90936.220	1.5	145643.450	2.5	183.0087	24.01	-4.11	19631.280	1.5	74273.480	1.5
182.7935	12.00	-1.67	0.000	0.0	54706.536	1.0	183.0094	27.02	-0.19	55729.200	3.5	110371.200	2.5
182.7949	28.01	-1.89	68131.210	3.5	122837.330	4.5	183.0133	25.01	-1.36	31661.720	3.0	86302.550	3.0
182.7970	26.03	-0.11	138841.300	3.5	193546.800	2.5	183.0168	28.02	-2.10	82172.900	3.0	136812.700	2.0
182.7971	18.01	-4.99	150474.900	1.5	205180.360	5.5	183.0217	25.02	-1.58	140776.880	5.5	195415.200	4.5
182.8007	23.02	-0.34	86716.840	1.5	141421.220	5.5	183.0224	24.01	-6.58	19798.010	2.5	74436.140	2.5
182.8037	25.01	-1.79	34761.810	5.0	89465.300	4.0	183.0246	26.02	-2.31	92523.910	5.0	147161.360	4.0
182.8058	26.02	-2.17	134976.220	3.0	189679.070	3.0	183.0295	24.03	-0.02	104265.000	2.5	158901.000	2.5
182.8061	28.01	-2.42	58705.950	1.5	113408.710	1.5	183.0313	11.01	-2.51	308864.540	0.0	363500.000	1.0
182.8108	28.01	-1.44	58705.950	1.5	113407.310	2.5	183.0339	26.02	-1.23	89697.520	3.0	144332.210	4.0
182.8110	25.02	-2.30	85200.760	5.5	139902.660	5.5	183.0389	26.02	-3.00	87901.870	3.0	142535.070	2.0
182.8120	11.05	-0.87	950367.000	1.0	1005068.000	1.0	183.0463	10.03	-1.97	524676.000	1.5	579307.000	2.5
182.8133	27.01	-3.97	10708.100	3.0	65408.710	2.0	183.0541	9.02	-0.54	442694.580	1.5	497323.250	2.5
182.8137	22.02	-0.27	81023.600	2.0	135724.100	2.0	183.0548	26.01	-2.91	45289.840	1.5	99918.300	1.5
182.8137	20.02	-2.12	328090.990	2.0	382791.500	3.0	183.0548	18.02	-4.31	188517.320	1.0	243145.760	2.0
182.8181	26.02	-3.72	151534.130	3.0	206233.310	2.0	183.0576	27.02	-0.09	71873.700	5.5	126501.300	5.5
182.8187	10.03	-3.58	524676.000	1.5	579375.000	2.5	183.0579	25.02	-2.84	94906.450	5.5	149533.980	1.5
182.8207	26.02	-4.15	151534.900	2.0	206233.310	2.0	183.0583	25.02	-1.91	140280.800	4.5	194908.200	5.5
182.8247	25.01	-0.19	55371.300	3.0	110068.500	2.0	183.0605	23.02	-0.71	86306.400	4.5	140933.140	3.5
182.8255	28.01	-1.36	76727.360	5.5	131424.320	5.5	183.0624	26.02	-0.38	88694.670	5.0	143320.850	6.0
182.8266	26.02	-4.59	151536.680	1.0	206233.310	2.0	183.0636	24.01	-3.47	19798.010	2.5	74423.840	3.5
182.8271	28.02	-0.97	79143.300	2.0	133839.800	1.0	183.0638	24.01	-3.55	0.000	2.5	54625.760	2.5
182.8271	27.02	-1.09	73726.600	2.5	128423.100	1.5	183.0648	26.02	-1.45	83138.230	5.0	137763.700	5.0
182.8339	24.01	-6.72	12032.720	1.5	66727.160	2.5	183.0664	26.02	-3.59	83429.610	6.0	138054.590	5.0
182.8341	9.03	-2.12	451819.600	1.0	506514.000	1.0	183.0734	24.02	-2.53	119039.900	5.0	173662.800	6.0
182.8343	26.01	-2.16	18360.650	1.5	73054.970	2.5	183.0753	26.02	-2.46	86847.110	2.0	141466.530	3.0
182.8364	20.02	-4.12											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
183.1526	18.01	-.49	154203.970	3.5	208803.240	4.5	183.4291	26.02	-2.59	135279.040	2.0	189796.030	1.0
183.1529	23.02	-2.24	102075.000	2.5	156671.200	2.5	183.4306	25.01	-2.86	27583.300	4.0	82099.820	4.0
183.1646	23.02	-.60	86809.390	5.5	141405.100	5.5	183.4314	27.01	-4.22	28111.900	2.0	82628.200	3.0
183.1651	25.01	-1.10	27546.900	6.0	82142.460	6.0	183.4351	28.02	-1.48	78303.100	2.0	132818.300	2.0
183.1664	26.02	-3.57	134360.400	4.0	188955.560	3.0	183.4364	25.01	-1.16	35004.430	3.0	89519.250	2.0
183.1686	18.01	-2.51	135601.650	.5	190196.160	.5	183.4366	25.01	-1.95	47073.560	3.0	101588.300	3.0
183.1731	23.02	-.14	86938.010	2.5	141531.170	1.5	183.4412	26.02	-3.17	147406.140	5.0	201919.530	4.0
183.1751	26.01	-1.88	8680.470	1.5	63273.030	2.5	183.4438	23.02	-2.11	91710.430	3.5	146223.050	3.5
183.1878	27.01	-1.83	9812.700	4.0	64401.500	4.0	183.4472	25.01	-3.76	27588.230	3.0	82099.820	4.0
183.1893	15.01	-3.51	76764.960	2.0	131353.300	2.0	183.4474	25.02	-3.25	86051.500	2.5	140563.030	3.5
183.1911	25.02	-4.18	177477.230	2.5	232065.030	2.5	183.4523	25.01	-2.85	52383.720	4.0	106893.800	5.0
183.1915	27.02	-.10	56373.800	2.5	110961.500	1.5	183.4580	25.01	-.13	55696.500	4.0	110204.900	3.0
183.1936	28.01	-1.95	54176.260	.5	108763.320	.5	183.4635	23.01	-4.81	208.890	3.0	54715.630	2.0
183.2098	26.02	-2.26	135096.840	3.0	189679.070	3.0	183.4678	26.02	-2.30	135279.040	2.0	189784.520	2.0
183.2102	17.02	-.38	146749.900	2.5	201332.000	1.5	183.4708	18.01	-4.22	135601.650	.5	190106.230	1.5
183.2129	18.01	-2.36	150474.900	1.5	205056.220	1.5	183.4718	18.01	-4.15	158428.030	.5	212932.230	1.5
183.2145	28.01	-2.06	13550.390	3.5	68131.210	3.5	183.4728	27.02	-1.05	77383.100	3.5	131887.100	4.5
183.2169	25.01	-.96	33278.390	3.0	87858.510	2.0	183.4772	18.01	-1.49	150474.900	1.5	204977.590	2.5
183.2196	27.02	-.27	76518.900	5.5	131098.200	4.5	183.4779	28.01	-2.73	77332.470	2.5	131834.940	2.5
183.2201	24.01	-7.66	12148.000	2.5	66727.160	2.5	183.4797	15.00	-1.28	18747.950	1.5	73249.900	1.5
183.2211	26.02	-2.67	135217.170	1.0	189796.030	1.0	183.4805	24.01	-6.69	12148.000	2.5	66649.710	1.5
183.2213	22.02	-.22	81023.600	2.0	135602.400	1.0	183.4805	27.01	-5.49	27469.200	5.0	81970.900	5.0
183.2236	26.01	-3.32	44753.820	3.5	99331.950	4.5	183.4835	27.02	-.06	77383.100	3.5	131883.900	2.5
183.2278	25.02	-4.54	177687.540	3.5	232264.420	3.5	183.4863	26.02	-1.22	79860.420	5.0	134360.400	4.0
183.2298	23.02	-.32	106441.310	4.5	161017.600	3.5	183.4863	9.01	-1.36	235642.480	1.0	290142.460	2.0
183.2327	28.01	-3.63	67694.640	2.5	122270.050	3.5	183.4872	24.01	-4.51	0.000	2.5	54499.700	1.5
183.2334	28.01	-1.69	77736.790	4.5	132311.980	4.5	183.4872	29.01	-3.14	67916.390	1.0	122416.100	0.0
183.2361	9.02	-.60	442748.850	2.5	497323.250	2.5	183.4909	28.01	-4.74	76402.030	2.5	130900.650	2.5
183.2387	9.02	-.70	442748.850	2.5	497322.460	3.5	183.4945	9.02	-1.96	390077.800	2.5	444575.350	2.5
183.2455	15.04	-2.14	391242.400	1.5	445814.000	2.5	183.4961	23.02	-1.35	92052.550	4.5	146549.620	4.5
183.2455	15.04	-3.09	391242.400	1.5	445814.000	1.5	183.5000	27.02	-.73	71623.100	6.5	126119.000	7.5
183.2458	25.01	-2.26	27570.950	5.0	82142.460	6.0	183.5011	23.02	-1.42	87218.920	3.5	141714.500	2.5
183.2458	11.02	-3.26	412201.500	.5	466773.000	1.5	183.5029	9.02	-2.11	390080.300	1.5	444575.350	2.5
183.2497	26.01	-2.41	8391.920	2.5	62962.260	1.5	183.5075	20.02	-2.69	227388.560	2.0	281882.240	2.0
183.2500	25.01	-2.23	27546.900	6.0	82117.160	5.0	183.5192	26.01	-5.78	0.000	4.5	54499.700	3.5
183.2502	22.01	-.58	4897.600	3.5	59467.810	3.5	183.5213	11.02	-.57	443261.600	.5	497751.200	.5
183.2519	23.02	-1.72	86938.010	2.5	141507.700	3.5	183.5234	10.01	-3.38	251522.120	1.5	306011.070	.5
183.2547	18.01	-3.04	135085.920	1.5	189654.780	2.5	183.5256	27.02	-.49	56794.800	1.5	111283.100	.5
183.2565	28.01	-2.31	1506.940	1.5	56075.260	2.5	183.5258	26.02	-4.43	76956.790	3.0	131445.030	2.0
183.2598	26.02	-2.07	135217.170	1.0	189784.520	2.0	183.5304	28.02	-2.96	153256.100	4.0	207743.000	3.0
183.2623	25.01	-2.56	35004.430	3.0	89571.030	3.0	183.5324	26.02	-3.61	147406.140	5.0	201892.440	5.0
183.2727	27.01	-2.33	13261.100	2.0	67824.600	2.0	183.5340	26.02	-2.62	66522.950	2.0	121008.780	3.0
183.2747	13.01	-1.54	95546.800	3.0	150109.700	3.0	183.5371	26.02	-4.21	90483.590	3.0	144968.500	4.0
183.2784	13.01	-.64	95547.900	2.0	150109.700	3.0	183.5414	26.01	-.61	31999.120	3.5	86482.750	3.5
183.2801	27.02	-1.08	73861.800	1.5	128423.100	1.5	183.5426	23.01	-3.65	14461.730	3.0	68945.000	3.0
183.2859	26.00	-8.90	0.000	4.0	54559.560	3.0	183.5498	26.01	-3.07	38214.500	1.5	92695.620	2.5
183.2873	7.01	-4.15	166582.450	2.0	221141.610	3.0	183.5510	28.01	-3.98	76794.640	2.5	122175.420	2.5
183.2905	23.02	-3.19	101785.810	1.5	156344.000	1.5	183.5525	24.01	-2.91	20024.180	3.5	74504.510	4.5
183.2987	10.01	-2.77	251011.180	2.5	305566.940	1.5	183.5550	23.02	-1.70	86716.840	1.5	141196.430	2.5
183.2990	23.02	-.06	98383.530	2.5	152939.200	2.5	183.5557	23.02	-3.06	44345.820	3.5	98825.190	3.5
183.3001	25.02	-.38	85346.720	6.5	139902.060	5.5	183.5587	7.00	-4.74	28839.306	1.5	83317.800	1.5
183.3012	26.02	-1.09	90483.590	3.0	145038.610	3.0	183.5620	27.02	-.20	73540.200	3.5	128017.700	3.5
183.3017	25.01	-2.01	34910.430	4.0	89465.300	4.0	183.5651	29.02	-1.94	68963.600	2.5	123440.200	2.5
183.3033	18.01	-3.80	155043.070	2.5	209597.450	1.5	183.5683	26.02	-3.19	151757.670	2.0	206233.310	2.0
183.3039	29.02	-3.02	142819.700	3.5	197373.900	3.5	183.5688	27.02	-1.07	77411.600	5.5	131887.100	4.5
183.3047	18.01	-4.35	147875.860	2.5	202429.840	3.5	183.5689	24.01	-3.44	19798.010	2.5	74273.480	1.5
183.3073	26.01	-1.97	8391.920	2.5	62945.120	3.5	183.5729	9.02	-.40	390077.800	2.5	444552.080	3.5
183.3116	26.02	-1.99	86847.110	2.0	141399.040	2.0	183.5795	24.01	-5.57	20512.620	2.5	74984.950	1.5
183.3227	26.02	-1.00	89783.590	4.0	144332.210	4.0	183.5872	26.01	-.94	15844.710	4.5	70314.740	4.5
183.3233	26.01	-1.89	31999.120	3.5	86547.550	2.5	183.5897	25.01	-.84	33248.320	4.0	87717.620	3.0
183.3255	17.02	-.59	146525.600	1.5	201073.400	.5	183.5995	8.01	-2.07	203942.210	.5	258408.600	.5
183.3268	25.01	-2.10	31514.350	4.0	86061.750	3.0	183.5998	19.02	-1.24	190916.000	1.5	245382.300	.5
183.3286	27.01	-2.31	9812.700	4.0	64359.560	3.0	183.6008	27.02	-1.99	72083.300	4.5	126549.300	3.5
183.3308	25.01	-1.47	27570.950	5.0	82117.160	5.0	183.6042	25.02	-3.71	88880.080	2.5	143345.070	3.5
183.3338	9.02	-2.35	390077.800	2.5	444623.120	3.5	183.6111	25.02	-2.34	94771.470	2.5	149234.400	2.5
183.3349	27.02	-.90	73540.200	3.5	128085.200	2.5	183.6114	26.02	-1.95	134549.000	3.0	189011.840	4.0
183.3374	28.01	-3.17	66571.340	2.5	121115.590	1.5	183.6181	25.01	-2.20	35004.430	3.0	89465.300	4.0
183.3374	23.02	-1.35	109854.870	3.5	164399.100	3.5	183.6189	23.02	-.89	99804.570	2.5	154265.200	3.5
183.3378	26.02	-4.22	66464.640	3.0	121008.780	3.0	183.6193	27.02	-.12	77121.100	4.5	131581.600	3.5
183.3396	19.02	-2.46	192082.000	2.5	246625.600	1.5	183.6203	27.02	-.02	86327.100	3.5	140787.300	2.5
183.3401	28.01	-1.42	51045.460	4.5	105588.890	4.5	183.6208	24.01	-1.87	20024.180	3.5	74484.250	2.5
183.3405	23.02	-.01	109854.870	3.5	164398.200	4.5	183.6244	11.01	-1.94	300391.590	0.0	354850.000	1.0
183.3429	24.02	-.95	66222.700	5.0	120765.300	5.0	183.6266	24.01	-4.62	30219.040	4.5	84677.390	3.5
183.3443	26.03	-2.15	138841.300	3.5	193383.500	3.5	183.6314	23.02	-3.18	43942.490	1.5	98399.420	.5
183.3462	25.01	-2.97	31760.930	2.0	86302.550	3.0	183.6318	25.03	-3.96	194208.200	3.0	248665.000	4.0
183.3467	26.02	-4.70	147614.650	2.0	202156.130	2.0	183.6351	24.01	-4.69	31117.590	2.5	85573.420	3.5
183.3506	28.01	-2.62	76402.030	2.5	130942.360	1.5	183.6387	26.02	-.83	114325.350	5.0	168780.100	5.0
183.3508	28.01	-4.73	76402.030	2.5	130942.360	1.5	183.6396	24.00	-3.8				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
183.7164	24.01	-6.78	20024.180	3.5	74455.900	4.5	183.9669	24.02	-2.38	100099.500	4.0	154457.100	4.0
183.7164	18.02	-1.16	188714.050	3.0	243145.760	2.0	183.9693	28.02	-1.52	79143.500	2.0	133500.200	2.0
183.7243	23.02	-4.39	91710.430	3.5	146139.800	2.5	183.9705	22.01	-2.53	15265.600	3.5	86622.150	2.5
183.7247	25.01	-1.58	31760.930	2.0	86190.180	2.0	183.9793	10.01	-4.68	251011.180	2.5	305365.130	3.5
183.7283	24.02	-1.52	100421.400	5.0	154849.600	5.0	183.9848	29.01	-2.64	85388.770	2.0	139741.100	3.0
183.7285	18.01	-2.88	160239.350	1.5	214667.480	2.5	183.9866	18.01	-3.51	135085.920	1.5	189437.690	3.5
183.7381	24.00	-8.39	0.000	3.0	54425.290	4.0	183.9886	12.02	-1.58	478374.500	1.0	532725.700	2.0
183.7413	26.02	-2.64	89907.850	4.0	144332.210	4.0	183.9901	25.02	-0.78	140557.460	4.5	194908.200	5.5
183.7413	26.02	-1.45	89907.850	5.0	144332.210	4.0	183.9940	17.02	-3.86	204541.200	2.5	258890.800	1.5
183.7418	22.01	-2.11	4897.600	3.5	59321.790	2.5	183.9944	9.02	-0.10	390120.770	5.0	444470.240	1.5
183.7452	24.01	-5.73	12303.980	3.5	66727.160	2.5	183.9960	28.02	-4.18	85834.800	5.0	140183.800	4.0
183.7462	25.01	-3.15	27570.950	5.0	81993.850	4.0	183.9966	25.01	-5.15	29919.220	2.0	84268.060	1.0
183.7467	26.02	-3.95	151757.670	2.0	206180.410	3.0	183.9968	9.02	-0.82	414894.890	4.5	469243.660	4.5
183.7467	25.01	-0.75	39808.140	3.0	94230.900	2.0	184.0042	14.00	-3.31	6298.850	2.0	60645.441	2.0
183.7485	15.01	-0.60	77711.000	2.0	132133.200	3.0	184.0044	9.02	-0.90	414894.890	4.5	469241.410	5.0
183.7560	27.01	-2.10	13404.600	1.0	67824.600	2.0	184.0061	20.01	-0.11	13710.880	2.5	88056.910	3.5
183.7589	26.02	-0.08	89697.520	3.0	144116.640	3.0	184.0061	20.01	-1.41	13710.880	2.5	88056.910	2.5
183.7627	27.02	-0.31	72083.300	4.5	126501.300	5.5	184.0064	9.02	-0.81	414897.720	3.5	469243.660	4.5
183.7631	25.01	-5.41	29889.310	3.0	84307.200	4.0	184.0096	24.03	-0.59	105113.000	4.5	159458.000	5.5
183.7633	25.01	-2.66	14901.180	1.0	69319.010	0.0	184.0109	17.02	-2.75	204541.200	2.5	258885.800	2.5
183.7643	25.01	-1.39	39813.380	2.0	94230.900	2.0	184.0159	9.02	-1.96	389255.550	1.5	443868.680	2.5
183.7654	27.02	-3.31	77121.100	4.5	131538.300	4.5	184.0177	26.02	-2.26	77102.430	2.0	131445.030	2.0
183.7704	26.02	-2.16	147614.650	2.0	202030.380	3.0	184.0209	9.02	-0.01	390210.430	3.5	444552.080	3.5
183.7743	28.01	-1.65	52205.950	3.5	106620.530	3.5	184.0273	9.02	-0.53	389255.550	1.5	443865.310	1.5
183.7754	23.01	-2.37	13490.840	2.0	67905.100	3.0	184.0284	25.01	-4.81	27546.900	6.0	81886.330	5.0
183.7756	26.02	-0.96	82382.870	3.0	136797.050	3.0	184.0296	11.01	-1.58	300510.920	1.0	354850.000	1.0
183.7766	28.01	-3.52	76402.030	2.5	130815.910	3.5	184.0370	24.00	-6.11	7593.160	2.0	61930.050	3.0
183.7772	28.01	-2.26	58493.210	2.5	112906.930	1.5	184.0392	18.03	-3.20	251972.000	2.5	306308.250	1.5
183.7783	27.01	-5.82	1597.200	2.0	56010.600	2.0	184.0400	27.01	-2.04	11321.500	2.0	65657.500	1.0
183.7807	9.02	-1.83	390210.430	3.5	444623.120	3.5	184.0401	23.01	-3.01	14461.730	3.0	68797.700	2.0
183.7831	24.01	-6.17	20024.180	3.5	74436.140	2.5	184.0421	28.02	-0.56	78482.900	1.0	132818.300	2.0
183.7843	27.02	-0.18	77472.300	2.5	131883.900	2.5	184.0442	23.02	-0.84	86809.390	5.5	141144.170	4.5
183.7843	9.02	-0.08	390077.800	2.5	444489.400	2.5	184.0443	25.01	-1.59	34761.810	5.0	89096.560	4.0
183.7863	26.02	-1.70	87901.870	3.0	142312.900	3.0	184.0447	26.02	-4.92	132262.660	6.0	186597.300	6.0
183.7865	26.02	-2.81	82382.870	3.0	136793.820	2.0	184.0464	25.01	-3.40	52373.180	3.0	106707.300	4.0
183.7879	25.01	-2.65	27583.300	4.0	81993.850	4.0	184.0465	26.02	-3.56	83429.610	6.0	137763.700	5.0
183.7928	9.02	-0.23	390080.300	1.5	444489.400	2.5	184.0465	18.01	-2.65	155043.070	2.5	209377.170	2.5
183.8008	20.01	-0.26	13650.190	1.5	68056.910	2.5	184.0468	8.01	-3.71	211521.980	1.5	265856.000	2.5
183.8011	18.02	-1.02	188517.320	1.0	242923.960	1.0	184.0500	26.02	-1.40	89783.590	4.0	144116.640	3.0
183.8012	14.00	-2.44	6298.850	2.0	60705.464	3.0	184.0523	23.02	-3.02	86938.010	2.5	141270.400	3.5
183.8014	26.02	-4.22	134549.000	3.0	188955.560	3.0	184.0539	24.02	-3.95	43286.400	4.0	97618.300	5.0
183.8045	25.01	-3.13	27588.230	3.0	81993.850	4.0	184.0539	25.01	-1.53	33248.320	4.0	87580.230	4.0
183.8046	23.01	-2.69	13741.610	3.0	68147.200	4.0	184.0594	28.02	-1.56	83033.800	2.0	137364.100	1.0
183.8076	11.02	-1.79	406200.900	2.5	460605.600	1.5	184.0613	25.02	-2.61	88880.080	2.5	143209.800	2.5
183.8079	24.01	-4.56	31168.780	3.5	85573.420	3.5	184.0639	24.00	-8.95	0.000	3.0	54328.950	3.0
183.8089	25.01	-2.47	39826.570	1.0	94230.900	2.0	184.0655	28.01	-3.58	76402.030	2.5	130730.530	2.5
183.8234	26.02	-2.20	135279.040	2.0	189679.070	3.0	184.0692	25.01	-2.37	31661.720	3.0	85989.120	2.0
183.8234	25.01	-3.39	31661.720	3.0	86061.750	3.0	184.0807	23.02	-3.47	99941.200	3.5	154265.200	3.5
183.8247	24.01	-3.11	20024.180	3.5	74423.840	3.5	184.0807	11.05	-0.17	951389.000	2.0	1005713.000	2.0
183.8271	25.01	-4.03	29869.110	2.0	84268.060	1.0	184.0821	25.01	-3.96	52383.720	4.0	106707.300	4.0
183.8310	26.02	-0.27	88923.070	6.0	143320.850	6.0	184.0853	18.01	-2.27	149179.170	3.5	203501.800	2.5
183.8323	12.02	-0.49	477435.700	2.0	531833.100	3.0	184.0858	25.01	-4.05	36274.290	2.0	90596.800	2.0
183.8350	24.02	-2.36	43286.400	4.0	97683.000	3.0	184.0861	24.01	-7.08	12032.720	1.5	66355.130	1.5
183.8384	23.01	-3.23	11908.270	2.0	66303.880	3.0	184.0879	26.02	-1.16	84369.920	2.0	138691.810	1.0
183.8408	26.00	-5.88	415.932	3.0	54810.820	4.0	184.0894	29.01	-3.74	85388.770	2.0	139710.200	2.0
183.8424	26.02	-2.52	147635.950	3.0	202030.380	3.0	184.0900	25.01	-1.88	40759.500	0.0	95080.760	1.0
183.8438	24.04	-0.04	171736.000	2.0	226130.000	2.0	184.0922	29.02	-0.47	67016.600	3.5	121337.200	4.5
183.8466	14.02	-1.53	175230.010	0.0	229623.190	1.0	184.0949	9.02	-1.21	389737.630	3.5	444057.440	1.5
183.8467	24.01	-6.06	11962.000	0.5	66355.130	1.5	184.0963	13.01	-1.62	95546.800	3.0	149866.200	3.0
183.8475	12.02	-0.75	530178.200	2.0	584571.100	2.0	184.0984	9.02	-1.71	389737.630	3.5	444056.420	3.5
183.8491	9.02	-1.18	390077.800	2.5	444470.240	1.5	184.1000	27.02	-2.24	86327.100	3.5	140645.400	3.5
183.8508	28.01	-2.78	67694.640	2.5	122086.580	3.5	184.1000	13.01	-0.72	95547.900	2.0	149866.200	3.0
183.8566	10.02	-0.74	357930.000	2.0	412320.210	2.0	184.1026	26.01	-3.41	21812.040	1.5	76129.580	1.5
183.8575	9.02	-0.22	390080.300	1.5	444470.240	1.5	184.1046	25.01	-5.24	29951.120	1.0	84268.060	1.0
183.8584	26.02	-1.78	83138.230	5.0	137527.920	4.0	184.1062	24.01	-4.03	19798.010	2.5	74114.480	3.5
183.8610	23.01	-2.50	14556.090	4.0	68945.900	3.0	184.1099	25.01	-1.59	27570.950	5.0	81886.330	5.0
183.8626	26.02	-1.03	89697.520	3.0	144085.970	4.0	184.1127	25.01	-1.85	14901.180	1.0	69215.730	1.0
183.8675	29.02	-2.50	138982.000	3.5	193369.000	4.5	184.1132	26.02	-4.00	125443.580	4.0	179757.980	4.0
183.8705	26.02	-1.27	82410.940	2.0	136797.050	3.0	184.1152	14.00	-1.67	0.000	0.0	54313.818	1.0
183.8719	12.02	-0.44	530178.200	2.0	584563.900	3.0	184.1269	23.01	-3.38	13594.730	2.0	67905.100	3.0
183.8722	28.01	-1.50	67694.640	2.5	122080.250	2.5	184.1275	29.02	-2.84	85446.400	1.5	139756.600	2.5
183.8785	25.02	-3.04	94850.660	1.5	49234.400	2.5	184.1308	25.01	-2.80	55759.270	3.0	110068.500	2.0
183.8806	10.02	-2.64	357930.000	2.0	412313.110	1.0	184.1320	25.01	-0.62	49291.310	3.0	103600.170	2.0
183.8814	26.02	-2.01	82410.940	2.0	136793.820	2.0	184.1325	27.01	-4.37	10708.100	3.0	65016.830	2.0
183.8817	24.02	-2.32	56992.200	3.0	111375.000	3.0	184.1383	28.02	-2.73	75646.900	4.0	129953.900	3.0
183.8847	18.02	-2.30	231627.300	1.0	286009.210	2.0	184.1392	26.02	-0.39	83237.860	3.0	137544.600	2.0
183.8870	23.01	-0.57	17910.980	4.0	72292.200	4.0	184.1449	14.00	-1.11	223.157	2.0	54528.220	2.0
183.8949	24.02	-6.32	43304.100	2.0	9								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
184.2201	27.01	-2.82	11321.500	2.0	65604.400	3.0
184.2238	26.01	-2.38	8680.470	1.5	62962.260	1.5
184.2315	25.01	-1.44	27583.300	4.0	81862.840	4.0
184.2334	9.02	-1.13	390210.430	3.5	444489.400	2.5
184.2340	27.02	-0.97	72270.500	3.5	126549.300	3.5
184.2341	10.01	-2.80	249695.530	1.5	303974.290	1.5
184.2401	10.03	-0.73	478701.000	5.5	532978.000	1.5
184.2482	25.01	-1.89	27588.230	3.0	81862.840	4.0
184.2520	23.02	-3.57	44110.040	2.5	98383.530	2.5
184.2528	18.01	-3.53	147875.860	2.5	202149.110	2.5
184.2605	24.03	-0.44	104265.000	2.5	158536.000	1.5
184.2639	28.02	-0.91	86646.200	2.0	140916.200	2.0
184.2659	23.02	-2.54	87218.920	3.5	141488.320	4.5
184.2673	23.02	-3.16	102075.000	2.5	156344.000	1.5
184.2685	23.01	-0.22	11514.760	1.0	65783.400	0.0
184.2696	25.02	-2.10	88880.080	2.5	143148.400	1.5
184.2712	23.02	-2.88	91710.430	3.5	145978.270	2.5
184.2800	5.01	-0.46	73397.000	0.0	127662.249	0.0
184.2833	18.03	-2.06	251972.000	2.5	306236.280	2.5
184.2835	16.01	-3.98	110508.480	3.5	164772.700	3.5
184.2836	27.02	-2.44	77622.900	4.5	131887.100	4.5
184.2842	24.03	-0.27	104637.000	3.5	158901.000	2.5
184.2858	20.02	-3.91	328588.760	3.0	382852.300	2.0
184.2862	25.01	-1.59	14781.190	2.0	69044.610	2.0
184.2889	28.01	-2.50	0.000	2.5	54262.630	3.5
184.2900	25.02	-1.36	90746.060	5.5	145008.360	6.5
184.2927	26.02	-0.13	83161.480	4.0	137423.000	3.0
184.3001	25.02	-0.74	140776.880	5.5	195036.200	6.5
184.3001	25.02	-3.72	140776.880	5.5	195036.200	6.5
184.3014	26.01	-3.16	18360.650	1.5	72619.610	2.5
184.3032	23.02	-0.74	86938.010	2.5	141196.430	2.5
184.3088	20.01	-1.83	25191.510	5.5	79448.280	5.5
184.3090	26.03	-0.81	138336.300	2.5	192593.000	2.5
184.3118	25.01	-2.03	14959.840	0.0	14955.730	1.0
184.3125	25.01	-3.11	27546.900	6.0	81802.580	6.0
184.3158	18.02	-2.89	231627.300	1.0	285882.000	1.0
184.3187	28.01	-3.82	78955.450	1.5	133209.300	2.5
184.3244	24.00	-9.98	0.000	3.0	54252.190	2.0
184.3315	12.00	-6.46	0.000	0.0	54250.086	1.0
184.3318	27.02	-0.60	77121.100	4.5	131371.100	5.5
184.3344	25.01	-1.03	37811.570	1.0	92060.800	1.0
184.3403	28.02	-0.34	79143.300	2.0	133390.800	3.0
184.3403	11.02	-2.32	414281.000	2.5	468528.500	1.5
184.3413	26.02	-0.16	93388.750	4.0	147635.950	3.0
184.3420	24.03	-0.34	105113.000	4.5	159360.000	3.5
184.3421	23.01	-1.56	13490.840	2.0	67737.800	2.0
184.3440	18.01	-2.98	155351.030	1.5	209597.450	1.5
184.3444	27.02	-0.47	57036.800	5.5	111283.100	5.5
184.3470	20.02	-3.23	328606.780	2.0	382852.300	2.0
184.3488	24.02	-4.53	99840.700	3.0	154085.700	3.0
184.3490	25.01	-0.65	31514.350	4.0	85759.300	4.0
184.3501	26.02	-0.37	88663.870	4.0	142908.480	5.0
184.3535	27.02	-0.15	73214.500	5.5	127458.100	1.5
184.3539	26.02	-0.59	93392.450	3.0	147635.950	3.0
184.3539	25.01	-3.70	43484.500	2.0	97728.000	3.0
184.3558	25.02	-4.08	86051.500	2.5	140294.440	3.5
184.3692	28.02	-3.03	86646.200	2.0	140885.200	1.0
184.3729	27.01	-7.04	17771.500	3.0	72009.400	4.0
184.3736	38.01	-5.16	14555.900	0.0	68793.600	0.0
184.3744	26.00	-5.68	0.000	4.0	54237.460	4.0
184.3770	14.00	-1.80	77.115	1.0	54313.818	1.0
184.3824	25.01	-1.47	37847.900	2.0	92083.000	3.0
184.3837	28.01	-3.99	78955.450	1.5	133190.190	1.5
184.3845	26.02	-3.30	66591.680	1.0	120826.170	2.0
184.3910	10.01	-1.52	249695.530	1.5	303928.100	5.5
184.3913	25.01	-3.33	36364.300	1.0	90596.800	2.0
184.3935	25.01	-4.56	37851.150	3.0	92083.000	3.0
184.3942	25.01	-4.27	27570.950	5.0	81802.580	6.0
184.3978	24.01	-4.70	20512.750	5.5	74743.330	6.5
184.4001	26.02	-0.55	82382.870	3.0	136612.780	4.0
184.4037	15.01	-2.82	76764.960	2.0	130993.800	3.0
184.4058	25.01	-1.50	37811.570	1.0	92039.800	2.0
184.4059	25.01	-0.76	31760.930	2.0	85989.120	2.0
184.4082	9.02	-0.47	389525.550	1.5	443753.060	2.5
184.4115	28.01	-1.54	58493.210	2.5	112719.750	3.5
184.4131	23.01	-4.53	13511.710	1.0	67737.800	2.0
184.4160	18.01	-2.48	155043.070	2.5	209268.310	1.5
184.4179	25.01	-8.34	27588.230	3.0	81812.900	2.0
184.4200	24.01	-6.17	12032.720	1.5	66256.770	5.5
184.4206	25.01	-1.83	27589.030	2.0	81812.900	2.0
184.4208	26.02	-4.43	132659.170	4.0	186882.980	3.0
184.4218	26.02	-3.48	132079.910	3.0	186303.440	3.0
184.4222	27.02	-1.58	73861.800	1.5	128085.200	2.5
184.4235	26.02	-1.01	93412.930	2.0	147635.950	3.0
184.4261	24.01	-4.12	31351.150	2.5	85573.420	3.5
184.4263	26.02	-0.07	93392.450	3.0	147614.650	2.0
184.4277	9.02	-3.22	414897.720	3.5	469119.520	2.5
184.4297	24.02	-2.33	57422.100	4.0	111643.300	4.0
184.4309	15.00	-1.65	18722.650	5.5	72943.500	5.5
184.4317	11.02	-0.53	411548.200	2.5	465768.800	2.5
184.4329	25.01	-3.40	31514.350	4.0	85734.620	3.0
184.4334	11.02	-0.01	406200.900	2.5	460421.000	2.5
184.4338	24.03	-0.84	110700.000	3.5	164920.000	3.5
184.4382	25.00	-4.84	0.000	2.5	54218.710	1.5
184.4409	26.02	-3.07	125443.580	4.0	179661.480	3.0
184.4419	23.02	-0.10	110181.470	2.5	184399.100	3.5
184.4443	25.02	-2.27	88880.080	2.5	143097.000	3.5
184.4456	26.01	-4.22	7955.240	3.5	62171.760	3.5
184.4489	25.01	-1.51	34910.430	4.0	89126.000	3.0
184.4548	26.02	-0.14	88694.670	5.0	142908.480	5.0
184.4553	25.02	-1.71	90746.060	5.5	144959.740	4.5
184.4568	26.02	-4.43	132785.360	4.0	186998.600	4.0
184.4579	25.01	-1.36	37847.900	2.0	92060.800	1.0
184.4585	26.01	-4.24	44232.510	4.5	98445.240	4.5
184.4687	20.02	-2.63	328588.760	3.0	382798.500	4.0
184.4691	7.01	-2.50	168892.210	1.0	223101.820	1.0
184.4719	26.02	-3.00	89907.850	4.0	144116.640	3.0
184.4726	27.02	-0.74	86283.800	4.5	140492.400	4.5
184.4776	24.01	-6.00	12148.000	2.5	66355.130	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
184.4793	27.01	-2.26	10708.100	3.0	64914.710	2.0
184.4834	24.01	-3.71	20512.620	2.5	74718.050	1.5
184.4886	18.02	-3.38	231627.300	1.0	285831.200	0.0
184.4903	26.02	-4.41	151534.130	3.0	205737.510	2.0
184.4905	26.01	-4.35	21711.890	3.5	75915.210	2.5
184.4908	18.01	-3.89	158730.210	2.5	212933.460	2.5
184.4918	26.01	-2.70	7955.240	3.5	62158.190	4.5
184.4925	20.02	-3.17	328588.760	3.0	382791.500	3.0
184.4930	26.02	-4.02	151534.900	2.0	205737.510	2.0
184.4943	26.02	-0.51	83358.880	2.0	137561.100	1.0
184.4944	30.02	-2.17	221052.200	4.0	275254.400	5.0
184.4947	18.01	-4.36	158730.210	2.5	212932.320	1.5
184.4960	26.02	-0.64	93412.930	2.0	147614.650	2.0
184.4985	28.01	-1.58	58705.950	1.5	112906.930	1.5
184.4990	26.02	-4.95	151536.680	1.0	205737.510	2.0
184.5070	26.02	-4.80	132104.940	2.0	186303.440	3.0
184.5070	27.02	-0.24	77383.100	3.5	131581.600	3.5
184.5078	26.02	-4.03	151534.130	3.0	205732.370	3.0
184.5107	25.01	-2.53	27583.300	4.0	81780.700	3.0
184.5110	11.02	-0.71	406562.000	1.5	460759.300	5.5
184.5141	28.02	-2.33	79143.300	2.0	133339.700	1.0
184.5142	26.01	-3.25	7955.240	3.5	62151.610	2.5
184.5157	20.02	-2.93	328588.760	3.0	382784.700	3.0
184.5170	15.00	-2.04	18747.950	1.5	72943.500	5.5
184.5185	23.01	-2.22	13542.680	3.0	67737.800	2.0
184.5200	24.01	-3.50	20512.750	5.5	74707.420	5.5
184.5203	26.02	-4.39	151537.800	4.0	205732.370	3.0
184.5240	28.02	-3.82	82826.900	4.0	137020.400	5.0
184.5254	28.01	-2.63	58493.210	2.5	112686.300	2.5
184.5275	25.01	-1.57	27588.230	3.0	81780.700	3.0
184.5275	23.02	-4.03	99073.230	5.5	153265.700	5.5
184.5281	23.02	-0.79	91710.430	3.5	145902.730	4.5
184.5283	26.02	-3.58	132262.660	6.0	186454.890	5.0
184.5294	25.01	-0.83	37847.900	2.0	92039.800	2.0
184.5300	26.02	-0.03	88663.870	4.0	142855.590	4.0
184.5302	25.01	-2.13	31760.930	2.0	85952.600	3.0
184.5302	25.01	-2.35	27589.030	2.0	81780.700	3.0
184.5332	7.02	-0.41	332810.000	1.5	387000.800	2.5
184.5350	23.02	-2.24	87544.460	4.5	141734.730	5.5
184.5397	26.02	-3.89	132079.910	3.0	186268.790	2.0
184.5405	25.01	-1.33	37851.150	3.0	92039.800	2.0
184.5442	24.01	-4.90	20519.650	4.5	74707.420	5.5
184.5455	26.02	-2.86	125443.580	4.0	179630.770	4.0
184.5491	25.01	-1.17	34910.430	4.0	89096.560	4.0
184.5504	38.01	-1.10	24516.650	0.0	78702.390	0.0
184.5505	26.02	-0.20	83358.880	2.0	137544.600	2.0
184.5520	14.00	-0.74	0.000	0.0	54185.264	1.0
184.5521	15.01	-2.58	76764.960	2.0	130950.200	2.0
184.5524	26.02	-0.03	83237.860	3.0	137423.000	3.0
184.5539	20.02	-4.35	328606.780	2.0	382791.500	3.0
184.5549	26.00	-4.90	415.932	3.0	54600.350	3.0
184.5597	10.03	-3.50	643672.000	1.5	697855.000	2.5
184.5631	7.02	-0.76	332860.300	3.5	387042.300	4.5
184.5633	23.02	-1.19	106903.350	5.5	161085.300	4.5
184.5686	25.03	-4.91	194208.200	3.0	248388.600	3.0
184.5737	26.02	-2.60	70725.010	3.0	124903.920	2.0
184.5757	7.02	-0.59	332832.000	2.5	387010.300	3.5
184.5760	23.02	-1.98	44466.960	4.5	98825.190	3.5
184.5764	26.02	-0.42	89907.850	4.0	144085.970	4.0
184.5764	26.02	-1.21	89907.850	5.0	144085.970	4.0
184.5770	20.02	-2.13	328606.780	2.0	382784.700	3.0
184.5779	20.02	-2.19	282571.430	1.0	336749.110	1.0
184.5839	12.02	-0.23	530178.200	2.0	584354.100	2.0
184.5967	38.01	-2.08	24516.650	0.0	78688.799	0.0
184.5997	10.01	-0.85	249108.640	3.5	303279.910	2.5
184.5999	25.02	-0.58	94397.200	3.5	148568.400	2.5
184.6023	23.02	-2.83	92052.550	4.5	146223.050	3.5
184.6081	28.03	-2.53	122377.910	1.5	176546.720	1.5
184.6081	7.02	-0.08	332832.000	2.5	387000.800	2.5
184.6112	14.00	-1.64	77.115	1.0	54245.020	0.0
184.6119	26.01	-5.19	22409.820	5.0	76577.500	5.0
184.6125	12.02	-1.20	530178.200	2.0	584345.700	1.0
184.6153	27.02	-0.35	56194.800	1.5	110961.500	1.5
184.6181	26.01	-4.59	38164.240	2.5	92330.100	2.5
184.6200	27.02	-1.38	86327.100	3.5	140492.400	4.5
184.6200	18.01	-3.42	148842.370	2.5	203007.690	1.5
184.6246	26.01	-2.40	18360.650	1.5	72524.620	1.5
184.6250	26.02	-3.98	132104.940	2.0	186268.790	2.0
184.6262	23.01	-3.53	13741.610	3.0	67905.100	3.0
184.6269	25.02	-0.49	93497.200	3.5	148560.500	4.5
184.6350	26.02	-1.12	88694.670	5.0	142855.590	4.0
184.6361	24.02	-0.70	119039.900	5.0	173200.500	5.0
184.6382	25.02	-2.97	91906.100	2.5	146066.070	1.5
184.6403	25.01	-3.42	31514.350	4.0	85673.720	4.0
184.6409	26.02	-4.76	151534.900	2.0	205694.090	1.0
184.6422	27.02	-0.69	77121.100	4.5	131279.900	3.5
184.6446	27.02	-1.41	78434.300	5.0	132592.400	1.5
184.6469	26.02	-4.18	151536.680	1.0	205694.090	1.0
184.6471	25.02	-1.80	89052.440	3.5	143209.800	2.5
184.6511	26.02	-4.61	151537.910	0.0	205694.090	1.0
184.6514	27.02	-0.19	72083.300	4.5	126239.400	4.5
184.6518	23.02	-0.16	101645.610	5.0	155801.600	1.5
184.6531	25.02	-4.62	86051.500	2.5	140207.090	2.5
184.6532	18.01	-1.98	155043.070	2.5	209198.630	2.5
184.6545	27.02	-2.33	77383.100	3.5	131538.300	4.5
184.6574	26.01	-0.96	16369.390	3.5	70523.730	3.5
184.6633	25.01	-4.22	52373.180	3.0	106525.800	3.0
184.6648	25.01	-1.67	34910.430	4.0	89062.600	5.0
184.6673	24.01	-1.61	32355.940	3.5	86507.380	2.5
184.6702	17.01	-1.97	131754.800	1.0	185905.400	1.0
184.6705	12.02	-0.33	530420.600	1.0	584571.100	2.0
184.6722	7.02	-0.19	332860.300	3.5	387010.300	3.5
184.6736	26.02	-2.22	82382.870	3.0	136532.450	2.0
184.6756	16.05	-0.36	546021.000	1.5	600170.000	2.5
184.6765	15.01	-0.85	76764.960	2.0	130913.700	3.0
184.6767	26.01	-2.51	8680.470	1.5	62829.160	5.0
184.6793	8.00	-3.81	76794.990	1.0	130942.923	0.0
184.6830	26.02	-2.58	90423.680	2.0	144570.530	3.0
184.6844	25.01	-4.19	53279.380	2.0	106525.800	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
184.6846	16.01	-4.83	110313.130	2.5	164459.500	2.5	184.9157	13.01	-2.97	95546.800	3.0	149625.500	2.0
184.6888	26.02	-2.63	87901.870	3.0	142047.000	4.0	184.9157	13.01	-1.80	95546.800	3.0	149625.500	3.0
184.6916	26.01	-4.85	38214.500	1.5	92358.800	1.5	184.9157	13.01	-0.37	95546.800	3.0	149625.500	4.0
184.6918	28.01	-2.19	13550.390	3.5	67694.640	2.5	184.9179	26.02	-0.96	90423.680	2.0	144501.740	2.0
184.6939	26.00	-7.58	415.932	3.0	54559.560	3.0	184.9182	25.01	-4.69	32858.840	2.0	86936.800	2.0
184.6943	26.02	-0.09	93412.930	2.0	147556.450	1.0	184.9194	13.01	-1.43	95547.900	2.0	149625.500	2.0
184.6946	25.01	-2.06	14901.180	1.0	69044.610	2.0	184.9194	13.01	-0.89	95547.900	2.0	149625.500	3.0
184.6949	8.01	-3.73	211712.660	2.5	265856.000	2.5	184.9208	28.01	-1.95	52205.950	3.5	106283.160	2.5
184.6958	23.01	-4.28	13594.730	2.0	67737.800	2.0	184.9225	13.01	-0.70	95548.800	1.0	149625.500	2.0
184.6962	25.01	-2.65	27589.030	2.0	81732.000	1.0	184.9242	25.01	-1.43	27583.300	4.0	81659.500	3.0
184.6976	26.02	-1.21	105895.350	1.0	160037.900	2.0	184.9278	16.01	-4.31	110176.830	1.5	164252.000	1.5
184.6981	38.01	-1.97	23715.190	0.0	77857.599	0.0	184.9290	25.02	-2.46	62988.920	3.5	117063.740	4.5
184.7044	16.01	-3.57	110176.830	1.5	164317.400	1.5	184.9297	27.02	-0.37	86283.800	4.5	140358.400	4.5
184.7046	7.02	-1.49	332860.300	3.5	387000.800	2.5	184.9304	28.02	-0.02	79250.800	4.0	133325.200	4.0
184.7050	25.02	-1.61	89204.690	4.5	143345.070	3.5	184.9355	25.01	-2.61	31661.720	3.0	85734.620	3.0
184.7063	28.02	-2.34	79250.800	4.0	133390.800	3.0	184.9376	24.02	-3.92	43286.400	4.0	97358.700	4.0
184.7103	28.01	-4.91	68131.210	3.5	122270.050	3.5	184.9378	10.01	-1.12	249445.990	2.5	303518.210	1.5
184.7131	16.05	-0.52	546032.000	2.5	600170.000	3.5	184.9403	26.02	-0.28	83138.230	5.0	137209.730	4.0
184.7131	16.05	-0.79	546032.000	2.5	600170.000	2.5	184.9411	25.01	-2.32	27588.230	3.0	81659.500	3.0
184.7131	17.01	-1.97	131767.400	0.0	185905.400	1.0	184.9438	25.01	-3.89	27589.030	2.0	81659.500	3.0
184.7135	28.02	-2.52	82826.900	4.0	136964.800	3.0	184.9468	28.02	-0.28	103306.100	3.0	157375.700	4.0
184.7152	17.01	-1.94	131768.000	2.0	185905.400	1.0	184.9482	27.02	-0.86	70934.100	2.5	125003.300	2.5
184.7166	15.01	-2.46	76813.220	1.0	130950.200	2.0	184.9486	26.01	-3.00	18360.650	1.5	72429.740	5.0
184.7184	15.00	-0.85	18747.950	1.5	72884.400	2.5	184.9509	27.01	-7.08	27902.500	4.0	81970.900	5.0
184.7191	26.02	-4.41	125443.580	4.0	179579.830	5.0	184.9516	28.02	-0.42	62606.300	3.0	116674.500	4.0
184.7232	25.01	-1.62	49465.130	3.0	103600.170	2.0	184.9526	29.02	-1.30	86133.000	5.0	140200.900	1.5
184.7245	10.01	-3.58	249839.630	5.0	303974.290	1.5	184.9551	23.02	-0.27	101785.810	1.5	155853.000	2.5
184.7261	26.02	-4.29	151537.800	4.0	205672.010	4.0	184.9557	17.02	-4.44	151879.900	1.5	205946.900	2.5
184.7262	16.01	-4.19	110313.130	2.5	164447.300	2.5	184.9560	11.02	-0.44	406200.900	2.5	460267.800	3.5
184.7267	25.02	-0.42	90746.060	5.5	144880.100	5.5	184.9583	11.01	-1.31	29193.750	2.0	353260.000	1.0
184.7271	28.02	-0.31	63472.600	2.0	117606.500	3.0	184.9595	12.02	-0.78	532725.700	2.0	586791.600	2.0
184.7283	7.01	-2.88	166582.450	2.0	220716.000	3.0	184.9637	25.01	-5.11	29869.110	2.0	83933.770	3.0
184.7306	24.00	-5.87	0.000	3.0	54132.880	3.0	184.9656	26.02	-0.65	83358.880	2.0	137423.000	3.0
184.7347	26.02	-0.40	105906.230	2.0	160037.900	2.0	184.9713	18.01	-4.42	155351.030	1.5	209413.480	1.5
184.7359	25.02	-2.36	140776.880	5.5	194908.200	5.5	184.9725	26.01	-3.74	44232.510	4.5	98294.600	5.5
184.7464	25.02	-4.11	86051.500	2.5	140179.740	2.5	184.9747	28.03	-2.87	121799.830	2.5	157861.270	3.5
184.7474	14.00	-0.40	77.115	1.0	54205.090	2.0	184.9791	10.01	-3.34	251522.120	1.5	305582.270	5.0
184.7475	26.01	-3.48	7955.240	3.5	62083.170	4.5	184.9817	12.02	-0.37	532725.700	2.0	586785.100	3.0
184.7476	28.02	-1.64	153256.100	4.0	207384.000	4.0	184.9832	15.00	-4.93	18747.950	1.5	72806.900	2.5
184.7484	9.02	-0.06	389737.630	5.0	443865.310	1.5	184.9844	17.02	-4.04	151879.900	1.5	205938.500	1.5
184.7500	18.02	-3.19	231754.800	0.0	285882.000	1.0	184.9940	27.02	-0.16	86327.100	3.5	140382.900	3.5
184.7507	11.02	-3.02	440472.000	2.5	494599.000	2.5	184.9950	26.02	-1.39	63466.390	5.0	117521.910	4.0
184.7517	27.02	-2.07	77411.600	5.5	131538.300	4.5	184.9964	25.01	-1.09	39813.380	2.0	93868.500	1.0
184.7565	26.02	-2.99	70728.750	4.0	124854.040	3.0	184.9979	26.02	-0.41	69695.730	4.0	123750.390	3.0
184.7572	12.02	-0.70	478846.100	2.0	532971.200	3.0	185.0003	26.02	-1.76	82610.940	2.0	136464.900	1.0
184.7587	26.02	-2.22	135554.410	4.0	189679.070	3.0	185.0043	24.02	-2.45	99840.700	3.0	153893.500	2.0
184.7589	25.01	-4.79	32836.400	1.0	86961.000	1.0	185.0063	12.02	-1.92	532725.700	2.0	586777.900	3.0
184.7607	25.02	-4.24	62568.080	1.5	116692.140	2.5	185.0064	26.01	-3.01	38164.240	2.5	92216.420	1.5
184.7633	26.02	-0.71	93512.640	4.0	147635.950	3.0	185.0199	26.02	-0.03	83161.480	4.0	137209.730	4.0
184.7650	25.02	-0.82	86654.070	4.5	140776.880	5.5	185.0255	11.02	-0.69	440552.400	3.5	494599.000	2.5
184.7692	25.01	-1.06	35004.430	3.0	89126.000	3.0	185.0287	26.02	-1.74	142855.590	4.0	196901.270	5.0
184.7694	26.02	-2.06	82410.940	2.0	136532.450	2.0	185.0316	10.01	-2.76	251522.120	1.5	305566.940	1.5
184.7732	25.01	-0.35	30523.450	6.0	84643.860	6.0	185.0325	25.02	-2.20	89052.440	3.5	143097.000	3.5
184.7755	23.02	-3.97	43942.490	1.5	98062.220	1.5	185.0328	25.01	-5.50	29889.310	3.0	83933.770	3.0
184.7788	18.01	-4.07	142186.270	4.5	196305.040	3.5	185.0335	28.01	-1.79	53037.930	2.5	107082.210	2.5
184.7796	26.01	-4.10	38164.240	2.5	92282.760	3.5	185.0358	11.02	-0.04	406562.000	1.5	460605.600	1.5
184.7817	27.02	-0.08	76791.100	1.5	130909.000	1.5	185.0410	25.02	-2.49	86520.940	2.5	140563.030	3.5
184.7896	26.01	-4.48	38214.500	1.5	92330.100	2.5	185.0415	25.01	-1.44	39826.570	1.0	93868.500	1.0
184.7899	26.01	-2.62	8846.760	5.0	62962.260	1.5	185.0455	25.01	-4.80	32856.950	3.0	86897.700	3.0
184.7921	26.02	-3.88	128371.530	0.0	182486.400	1.0	185.0485	27.02	-0.04	72341.900	1.5	126381.800	1.5
184.7950	23.02	-1.26	98825.190	3.5	152939.200	2.5	185.0518	26.02	-3.31	125637.980	3.0	179676.890	2.0
184.8032	28.01	-2.64	68735.980	2.5	122847.600	3.5	185.0560	23.02	-2.63	44345.820	3.5	98383.530	2.5
184.8076	26.01	-3.01	7955.240	3.5	62065.570	3.5	185.0564	26.02	-1.37	82494.880	1.0	136532.450	2.0
184.8084	25.01	-4.20	32787.600	4.0	86897.700	3.0	185.0572	7.01	-2.17	166578.640	3.0	220716.000	3.0
184.8111	27.02	-4.40	77472.300	2.5	131581.600	3.5	185.0584	24.02	-5.09	43321.700	3.0	97358.700	4.0
184.8119	25.02	-2.81	89052.440	3.5	143161.500	4.5	185.0593	15.01	-3.59	76764.960	2.0	130801.700	1.0
184.8130	26.02	-0.02	105929.160	3.0	160037.900	2.0	185.0628	24.02	-2.38	100421.400	5.0	154457.100	4.0
184.8150	14.00	-0.93	77.115	1.0	54185.264	1.0	185.0631	26.02	-2.68	134976.220	3.0	189011.840	4.0
184.8195	28.01	-4.01	79823.030	3.5	133929.880	3.5	185.0648	26.02	-1.96	63486.780	4.0	117521.910	4.0
184.8197	18.01	-3.37	151087.250	2.5	205194.040	1.5	185.0672	14.00	-0.14	223.157	2.0	54257.582	3.0
184.8207	23.02	-2.19	99181.500	1.5	153288.000	1.5	185.0687	23.02	-0.31	86716.840	1.5	140750.820	2.5
184.8208	23.02	-0.43	87880.850	2.5	141987.320	3.5	185.0691	20.01	-1.53	25414.400	1.5	79448.280	5.0
184.8243	26.01	-6.35	384.770	3.5	54490.200	2.5	185.0725	28.03	-2.80	122709.410	5.0	176742.300	5.0
184.8243	26.01	-5.29	384.770	3.5	54490.200	3.5	185.0734	24.00	-6.21	0.000	3.0	54032.630	2.0
184.8244	26.02	-3.60	66591.680	1.0	120697.100	1.0	185.0765	27.02	-4.47	73286.000	4.5	127317.700	3.5
184.8244	28.01	-3.40	54262.630	3.5	108368.050	2.5	185.0779	27.02	-0.28	86327.100	3.5	140358.400	4.5
184.8283	28.01	-2.50	53037.930	2.5	107142.210	1.5	185.0786	11.02	-0.94	417415.500	1.5	471446.600	1.5
184.8286	25.02	-3.02	62747										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
185.1502	17.01	-2.00	131754.800	1.0	185765.000	2.0	185.3843	27.02	-0.84	86283.800	4.5	140225.800	3.5
185.1505	26.02	-3.60	125672.830	2.0	179682.940	1.0	185.3851	16.01	-2.76	110176.830	1.5	164118.600	1.5
185.1526	28.01	-4.44	68151.210	3.5	122140.710	4.5	185.3912	10.03	-3.73	532978.000	1.5	586918.000	2.5
185.1526	26.01	-2.20	8680.470	1.5	62689.960	2.5	185.3951	18.01	-2.81	110313.130	2.5	164252.000	1.5
185.1564	27.02	-2.28	76791.100	1.5	130799.500	1.5	185.3952	16.01	-2.49	110508.480	3.5	164447.300	2.5
185.1633	16.01	-2.40	110766.310	4.5	164772.700	3.5	185.3970	23.01	-2.96	18353.890	3.0	72292.200	4.0
185.1640	27.01	-1.99	11651.310	2.0	65657.500	1.0	185.3995	24.01	-5.25	20518.330	3.5	74455.900	4.5
185.1687	26.00	-0.54	0.000	4.0	54004.820	3.0	185.4026	9.02	-4.41	390120.770	1.5	444057.440	1.5
185.1705	16.01	-2.55	110313.130	2.5	164317.400	1.5	185.4029	10.01	-1.94	254165.010	1.5	308101.610	1.5
185.1713	26.02	-3.84	125672.830	2.0	179676.890	2.0	185.4035	26.02	-3.66	151757.670	2.0	205694.090	1.0
185.1763	24.00	-0.96	7927.470	2.0	61930.050	3.0	185.4040	10.01	-0.99	254165.010	1.5	308101.270	2.5
185.1765	26.02	-4.69	147291.210	2.0	201293.750	2.0	185.4048	24.01	-3.89	20519.850	4.5	74455.900	4.5
185.1783	24.02	-4.10	43304.100	2.0	97306.100	2.0	185.4050	14.03	-1.50	276503.670	1.5	330439.660	1.5
185.1783	14.00	-2.39	6298.850	2.0	60300.860	2.0	185.4061	9.02	-1.63	390120.770	1.5	444056.420	1.5
185.1786	26.01	-1.90	38214.500	1.5	92216.420	1.5	185.4073	23.01	-7.48	208.890	3.0	51444.200	4.0
185.1818	24.03	0.36	104637.000	3.5	158638.000	4.5	185.4112	24.00	-6.75	7593.160	2.0	61527.340	1.0
185.1881	20.02	-2.76	328588.760	3.0	382587.900	4.0	185.4135	12.02	0.16	530420.600	1.0	584354.100	2.0
185.1885	28.01	-3.96	79923.880	4.5	133922.910	4.5	185.4140	25.01	-2.24	31514.350	4.0	85447.700	5.0
185.1908	26.01	-4.51	44446.890	3.5	98445.240	4.5	185.4142	28.02	0.49	61339.200	4.0	115272.500	5.0
185.1941	27.02	-0.39	56373.800	2.5	110371.200	2.5	185.4149	27.02	-0.88	77121.100	4.0	131054.200	5.0
185.1955	17.01	-1.45	131768.000	2.0	185765.000	2.0	185.4161	18.01	-3.89	142186.270	4.5	196119.020	3.5
185.1983	23.01	-5.08	13741.610	3.0	67737.800	2.0	185.4166	29.02	-2.49	142512.300	1.5	196444.900	1.5
185.2019	23.02	0.45	86938.010	2.5	140933.140	3.5	185.4221	28.02	-2.01	83033.800	2.0	136964.800	3.0
185.2047	25.01	-4.61	52379.380	2.0	106373.700	2.0	185.4236	26.01	-3.06	8391.920	2.5	62322.500	3.5
185.2070	15.00	-1.53	18747.950	1.5	72741.600	1.5	185.4239	28.01	-4.19	68154.310	1.5	122084.790	1.5
185.2078	17.02	-2.76	151953.500	3.5	205946.900	2.5	185.4338	24.00	-9.78	0.000	3.0	53927.590	4.0
185.2089	26.03	-1.45	137698.900	1.5	191692.000	1.5	185.4366	27.02	0.16	82363.300	4.5	136290.100	3.5
185.2099	26.02	-3.13	142908.480	5.0	196901.270	5.0	185.4385	26.02	-0.55	83646.980	1.0	137573.200	0.0
185.2099	26.02	-3.74	125637.980	3.0	179630.770	4.0	185.4395	28.01	-2.65	68154.310	1.5	122080.250	2.5
185.2123	17.02	-4.86	151946.400	1.5	205938.500	1.5	185.4419	23.02	0.58	87218.920	3.5	141144.170	4.5
185.2132	18.01	-2.22	151087.250	2.5	205079.070	2.5	185.4424	12.02	-0.10	530420.600	1.0	584345.700	1.0
185.2134	24.01	-0.85	20512.750	5.5	74504.510	4.5	185.4437	23.02	-1.28	56256.750	1.5	110181.470	2.5
185.2172	28.01	-4.13	68154.310	1.5	122144.990	2.5	185.4438	28.01	-4.12	75917.630	3.5	129842.330	2.5
185.2241	26.02	-4.05	125672.830	2.0	179661.480	3.0	185.4438	27.02	-1.12	57036.800	1.5	110961.500	1.5
185.2247	15.01	-3.73	76813.220	1.0	130801.700	1.0	185.4478	24.01	-2.93	20512.620	2.5	74436.140	2.5
185.2271	26.02	-4.85	147305.970	3.0	201293.750	2.0	185.4565	15.01	-0.19	77711.000	2.0	131632.000	3.0
185.2320	18.01	-4.54	150147.620	2.5	204133.980	2.5	185.4593	28.01	-1.70	67880.160	2.5	121800.340	1.0
185.2325	24.02	-2.02	100099.500	4.0	154085.700	3.5	185.4675	24.01	-3.29	20518.330	3.5	74436.140	2.5
185.2326	24.01	-3.57	20518.330	3.5	74504.510	4.5	185.4693	18.01	-2.67	155351.030	1.5	209268.310	1.5
185.2326	7.01	-2.05	168892.210	1.0	222878.390	2.0	185.4701	18.01	-2.26	142186.270	4.5	196103.310	4.5
185.2327	25.01	-7.15	29889.310	1.0	83875.460	4.0	185.4716	13.02	0.06	0.000	1.5	53916.600	1.5
185.2352	26.02	-0.84	88923.070	6.0	142908.480	5.0	185.4737	18.01	-3.83	142717.020	3.5	196633.020	2.5
185.2374	25.02	-2.72	86578.240	3.5	140563.030	3.5	185.4751	20.02	-2.95	225826.220	2.0	279741.800	2.0
185.2378	24.01	-2.02	20519.850	4.5	74504.510	4.5	185.4758	27.02	0.15	77622.900	4.5	131538.300	4.5
185.2387	24.02	-2.58	43321.700	3.0	97306.100	2.0	185.4771	26.02	-2.07	135096.840	3.0	189011.840	4.0
185.2425	26.00	-4.06	0.000	4.0	53983.300	5.0	185.4802	26.02	-0.31	83646.980	1.0	137561.100	1.0
185.2456	26.01	-2.54	8846.760	1.5	62829.160	1.5	185.4821	26.02	-0.05	69836.830	3.0	123750.390	3.0
185.2472	14.00	-1.04	223.157	2.0	54205.090	2.0	185.4843	7.01	-4.55	166582.450	2.0	220495.360	2.0
185.2498	26.01	-2.24	20516.980	2.5	74498.150	1.5	185.4853	26.02	-0.49	69837.760	2.0	123750.390	3.0
185.2500	22.01	-2.75	16625.250	1.5	70606.350	2.5	185.4867	28.01	-4.82	79823.030	3.5	133735.260	2.5
185.2526	28.01	-0.97	58705.950	1.5	112686.300	2.5	185.4888	24.01	-4.14	20512.750	5.5	74424.350	6.5
185.2543	26.02	-3.60	151757.670	2.0	205737.510	2.0	185.4901	24.01	-3.61	20512.620	2.5	74423.840	3.5
185.2550	9.02	-1.44	390077.800	2.5	444057.440	1.5	185.4960	8.01	-4.44	211521.980	1.5	265431.500	2.5
185.2559	27.01	-2.56	9812.700	4.0	63792.100	4.0	185.4977	24.01	-4.74	20512.750	5.5	74421.760	5.5
185.2561	26.02	-4.51	134976.220	3.0	188955.560	3.0	185.4977	10.01	-1.44	274409.110	3.5	328318.120	3.5
185.2565	25.02	-0.98	86578.240	3.5	140557.460	4.5	185.4978	26.02	-0.37	69788.190	1.0	123697.180	2.0
185.2617	15.01	-4.15	76824.000	0.0	130801.700	1.0	185.4978	25.02	-2.79	86654.070	4.5	140563.030	3.5
185.2623	26.02	-1.74	142908.480	5.0	196886.010	6.0	185.4983	10.01	-2.85	274409.110	3.5	328317.950	2.5
185.2623	23.02	0.01	87218.920	3.5	141196.430	2.5	185.4983	18.01	-1.56	151087.250	2.5	204996.090	3.5
185.2636	9.02	-2.91	390080.300	1.5	444057.440	1.5	185.5015	23.01	-3.95	11908.270	2.0	65816.200	1.0
185.2638	27.02	-0.41	77121.100	4.5	131098.200	4.5	185.5029	28.02	-1.45	79250.800	4.0	133158.300	3.0
185.2640	23.01	-3.38	11908.270	2.0	65885.300	2.0	185.5035	24.01	-1.73	32603.730	2.5	86511.080	1.5
185.2662	18.01	-3.13	161089.310	1.5	215065.710	1.5	185.5064	23.02	0.58	102075.000	2.5	155981.500	3.5
185.2671	9.02	-1.40	390080.300	1.5	444056.420	1.5	185.5098	24.01	-2.02	20518.330	3.5	74423.840	3.5
185.2679	26.02	-0.26	89907.850	4.0	143883.740	5.0	185.5102	28.02	-4.13	129953.900	3.0	183859.300	3.0
185.2679	26.02	0.30	89907.850	5.0	143883.740	5.0	185.5120	18.01	-3.25	142717.020	3.5	196621.880	3.5
185.2720	26.02	-3.73	151757.670	2.0	205732.370	3.0	185.5124	25.01	-2.78	30523.450	6.0	84428.210	5.0
185.2755	25.01	-0.68	31760.930	2.0	85734.620	3.0	185.5150	24.01	-1.05	20519.850	4.5	74423.840	3.5
185.2755	7.01	-3.89	166521.690	1.0	220495.360	2.0	185.5154	26.02	-2.16	86847.110	2.0	140750.980	2.0
185.2761	26.02	-2.22	135705.570	3.0	189679.070	3.0	185.5162	24.01	-2.31	32603.730	2.5	86507.380	2.5
185.2793	18.01	-4.29	155043.070	2.5	209015.630	3.5	185.5171	25.02	-2.28	86654.070	4.5	140557.460	4.5
185.2817	26.02	-2.22	83237.860	3.0	137209.730	4.0	185.5222	24.01	-4.39	20519.850	4.5	74421.760	5.5
185.2825	24.01	-2.83	20512.620	2.5	74484.250	2.5	185.5242	26.02	-3.49	147305.970	3.0	201207.290	4.0
185.2878	28.01	-1.70	14995.570	2.5	68965.650	1.5	185.5281	7.02	-0.46	334542.200	1.5	388442.400	1.5
185.2881	26.02	-1.85	82494.880	1.0	136464.900	1.0	185.5322	10.03	-0.43	479079.000	1.5	532978.000	1.5
185.2917	18.01	-3.34	151087.250	2.5	205056.220	1.5	185.5326	22.02	-1.27	75197.430	2.0	129096.300	3.0
185.2919	27.02	0.21	72270.500	3.5	126239.400	4.5	185.5332	27.02	-0.01	86327.100	3.5	140225.800	3.5
185.3015	18.01	-3.46	15										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
185.5990	12.02	-3.47	478846.100	2.0	532725.700	2.0	185.8842	25.02	-2.38	94771.470	2.5	148568.400	2.5
185.6004	13.01	-1.03	37392.000	0.0	91271.200	1.0	185.8860	15.00	-1.14	11360.800	1.5	65157.200	2.5
185.6035	24.01	-3.36	19528.380	.5	73406.680	.5	185.8884	26.02	-4.10	132659.170	4.0	186454.890	5.0
185.6046	26.01	-3.82	18360.650	1.5	72238.630	2.5	185.8888	15.00	-4.30	11360.800	1.5	65156.400	1.5
185.6070	14.02	-1.07	176487.190	1.0	230364.460	0.0	185.9015	10.01	-4.16	249445.990	2.5	303237.910	1.5
185.6072	26.02	-3.99	134265.420	2.0	188142.640	2.0	185.9051	9.02	-5.00	390077.800	2.5	443868.680	2.5
185.6144	26.02	-4.52	147291.210	2.0	201166.350	3.0	185.9110	26.02	-2.39	82410.940	2.0	136200.130	3.0
185.6146	26.02	-4.12	128605.650	1.0	182480.720	2.0	185.9133	9.02	-2.78	390834.600	2.5	444623.120	3.5
185.6200	27.02	-2.12	83938.900	3.5	137812.400	3.5	185.9138	9.02	.05	390080.300	1.5	443868.680	2.5
185.6200	7.02	-1.41	334568.900	2.5	388442.400	1.5	185.9150	9.02	-1.14	414894.890	4.5	468682.910	3.5
185.6234	25.01	-4.76	52653.270	4.0	106525.800	3.0	185.9168	9.02	-3.11	390077.800	2.5	443865.310	1.5
185.6302	25.02	-3.30	94697.850	3.5	148568.400	2.5	185.9189	26.02	-3.92	128605.650	1.0	182392.550	2.0
185.6304	25.02	-4.80	90440.500	4.5	144311.000	5.5	185.9203	11.02	-4.15	412201.500	.5	465988.000	.5
185.6319	15.00	-4.98	18747.950	1.5	72618.000	.5	185.9213	17.01	-3.03	128662.500	2.0	182448.700	2.0
185.6449	26.02	-3.03	134265.420	2.0	188131.700	1.0	185.9230	9.02	-1.20	414897.720	3.5	468683.430	2.5
185.6481	8.01	-2.39	211712.660	2.5	265578.000	3.5	185.9248	9.02	-3.01	414897.720	3.5	468682.910	3.5
185.6497	24.00	-5.36	7810.820	1.0	61675.720	2.0	185.9254	9.02	-1.85	390080.300	1.5	443865.310	1.5
185.6529	23.02	-3.94	105282.650	2.5	159146.600	2.5	185.9262	26.02	-4.46	135239.740	4.0	189024.530	5.0
185.6533	18.01	-1.17	151087.250	2.5	204951.090	3.5	185.9290	26.01	-4.62	44784.780	2.5	98568.750	3.5
185.6570	25.02	-1.51	62988.920	3.5	116851.690	3.5	185.9314	23.02	-2.05	101785.810	1.5	155569.100	2.5
185.6601	25.01	-2.56	34910.430	4.0	88772.300	5.0	185.9332	24.00	-4.92	0.000	3.0	53782.770	4.0
185.6643	23.02	.69	87544.460	4.5	141405.100	5.5	185.9361	10.01	-3.21	249108.640	3.5	302890.570	2.5
185.6644	14.03	-1.20	276579.030	1.5	330439.660	.5	185.9400	15.00	-1.10	11376.400	2.5	65157.200	2.5
185.6652	26.02	-4.11	147305.970	3.0	201166.350	3.0	185.9404	24.01	-3.51	19631.280	1.5	73411.940	1.5
185.6653	26.02	-1.01	69836.830	3.0	123697.180	2.0	185.9427	25.01	-4.59	49820.160	2.0	103600.170	2.0
185.6685	26.02	-1.12	69837.760	2.0	123697.180	2.0	185.9427	15.00	-1.33	11376.400	2.5	65156.400	1.5
185.6700	11.02	.08	406562.000	1.5	460421.000	2.5	185.9433	26.01	-5.08	8391.920	2.5	62171.760	3.5
185.6710	26.02	-2.89	135096.840	3.0	188955.560	3.0	185.9445	23.02	-1.07	99508.500	1.5	153288.000	1.5
185.6814	8.01	-4.03	203942.210	.5	257797.900	1.5	185.9465	28.02	-3.90	83033.800	2.0	136812.700	2.0
185.6819	26.00	-7.22	704.003	2.0	54559.560	3.0	185.9483	28.02	-3.03	63472.600	2.0	117251.000	3.0
185.6863	25.02	-1.51	89307.220	5.5	143161.500	4.5	185.9484	25.02	-1.95	63285.370	4.5	117063.740	4.5
185.6890	17.02	-3.60	205037.300	1.5	258890.800	1.5	185.9496	23.02	-1.19	102075.000	2.5	155853.000	2.5
185.6896	25.02	-1.87	94707.200	4.5	148560.500	4.5	185.9514	27.02	-4.40	73540.200	3.5	127317.700	3.5
185.6913	29.01	-1.71	85388.770	2.0	139241.600	1.0	185.9546	24.00	-4.50	7750.780	0.0	61527.340	1.0
185.6919	26.01	-3.13	8391.920	2.5	62244.570	1.5	185.9550	26.01	-2.92	20830.520	2.5	74606.970	2.5
185.6923	26.02	-2.24	147354.750	5.0	201207.290	4.0	185.9555	11.02	-3.67	415173.200	1.5	468949.500	.5
185.6926	26.01	-1.99	18360.650	1.5	72213.100	.5	185.9557	25.02	-1.82	90746.060	5.5	144522.300	4.5
185.6943	7.01	-2.28	168892.210	1.0	222744.160	1.0	185.9573	26.02	-2.58	136008.740	3.0	189784.520	2.0
185.6969	23.02	-2.90	101445.610	.5	155496.800	1.5	185.9581	28.01	-2.98	52205.950	3.5	105981.500	4.5
185.7004	23.02	-.76	92052.550	4.5	145902.730	4.5	185.9586	24.01	-3.00	19631.280	1.5	73406.680	.5
185.7024	9.02	-.90	390077.800	2.5	443927.410	3.5	185.9586	24.02	-4.48	43321.700	3.0	97097.100	4.0
185.7034	23.01	-4.04	25191.080	2.0	79040.400	3.0	185.9624	27.01	-1.37	9812.700	4.0	63587.000	3.0
185.7052	28.02	-.80	103306.100	3.0	157154.900	2.0	185.9642	29.02	-3.08	89045.900	3.5	142819.700	3.5
185.7058	26.02	-1.12	90483.590	3.0	144332.210	4.0	185.9652	25.02	-1.05	86520.940	2.5	140294.440	3.5
185.7083	23.02	-1.85	99440.100	2.5	153288.000	1.5	185.9658	14.01	-2.49	65500.730	.5	119274.070	1.5
185.7093	18.01	-1.72	155351.030	1.5	209198.630	2.5	185.9661	16.00	-4.25	22177.820	0.0	75951.060	1.0
185.7140	26.02	-2.89	86847.110	2.0	140693.360	3.0	185.9666	27.02	-1.96	73214.500	.5	126987.600	1.5
185.7162	15.04	-3.50	414684.400	3.5	468530.000	3.5	185.9676	24.02	-2.86	43304.100	2.0	97076.900	1.0
185.7162	15.04	-1.96	414684.400	4.5	468530.000	3.5	185.9683	26.02	-2.61	93388.750	4.0	147161.360	4.0
185.7162	15.04	-2.07	414684.400	3.5	468530.000	2.5	185.9733	15.00	-4.01	18722.650	.5	72493.800	1.5
185.7210	28.02	-2.97	79250.800	4.0	133095.000	3.0	185.9744	28.01	-3.41	68154.310	1.5	121925.160	.5
185.7212	26.02	-3.66	134265.420	2.0	188109.580	3.0	185.9744	26.01	-1.37	7955.240	3.5	61726.090	3.5
185.7372	26.02	-4.02	147326.850	4.0	201166.350	3.0	185.9755	18.01	-4.94	150147.620	2.5	203918.150	1.5
185.7448	28.03	-3.59	122709.410	.5	176546.720	1.5	185.9811	26.02	.23	93392.450	3.0	147161.360	4.0
185.7492	18.01	-3.83	135601.650	.5	189437.690	.5	185.9953	27.02	-2.21	73286.400	4.5	127050.800	4.5
185.7533	24.00	-1.18	8095.210	3.0	61930.050	3.0	185.9954	26.02	-.40	69788.190	1.0	123552.950	1.0
185.7538	7.02	-1.41	334542.200	1.5	388376.900	2.5	185.9981	26.02	-3.44	125443.580	4.0	179207.570	5.0
185.7554	28.01	-3.69	76402.030	2.5	130236.260	2.5	186.0006	26.00	-3.44	0.000	4.0	53763.280	3.0
185.7565	10.01	-1.56	249445.990	2.5	303279.910	2.5	186.0050	23.01	-5.08	106.630	2.0	53868.630	2.0
185.7566	24.02	-5.74	43286.400	4.0	97120.300	3.0	186.0052	26.01	-3.36	15844.710	4.5	69606.640	3.5
185.7574	23.02	.22	87880.850	2.5	141714.500	2.5	186.0089	24.01	-1.29	20512.620	2.5	74273.480	1.5
185.7583	28.02	-2.60	154170.600	3.0	208004.000	2.0	186.0105	25.01	-3.62	52718.800	4.0	106479.200	1.0
185.7608	25.02	-2.95	62747.500	2.5	116580.170	1.5	186.0130	26.01	-2.65	8391.920	2.5	62151.610	2.5
185.7611	23.01	-6.27	36.050	1.0	53868.630	2.0	186.0163	23.01	-5.97	12545.150	4.0	66303.880	3.0
185.7614	11.02	-.71	418418.100	1.5	472250.600	.5	186.0199	23.02	-.94	99181.500	1.5	152939.200	2.5
185.7720	26.00	-4.94	6928.266	5.0	60757.680	4.0	186.0209	27.01	-1.72	11651.310	2.0	65408.710	2.0
185.7751	29.01	-3.15	85388.770	2.0	139217.300	2.0	186.0216	23.02	-1.23	99508.500	1.5	153265.700	.5
185.7811	17.01	-3.17	182621.900	1.0	182448.700	2.0	186.0273	8.01	-4.16	211712.660	2.5	265468.200	1.5
185.7823	26.00	-6.59	6928.266	5.0	60754.710	4.0	186.0406	26.03	-.35	138841.300	3.5	192593.000	2.5
185.7876	26.02	-1.41	82410.940	2.0	136235.840	1.0	186.0414	8.01	-4.59	203942.210	.5	257693.700	.5
185.7924	25.01	-.55	14593.820	3.0	68417.340	2.0	186.0415	23.01	-7.97	0.000	0.0	53751.460	1.0
185.7953	10.01	-1.46	249695.530	1.5	303518.210	1.5	186.0431	20.02	-1.44	227388.560	2.0	281139.550	1.0
185.7957	26.01	-5.48	667.640	2.5	54490.200	3.5	186.0443	26.02	-4.63	125443.580	4.0	179194.220	4.0
185.7957	26.01	-6.41	667.640	2.5	54490.200	2.5	186.0493	26.02	-3.87	134360.400	4.0	188109.580	3.0
185.7987	28.02	-2.32	82277.000	1.0	136098.700	1.0	186.0501	26.00	-5.24	6928.266	5.0	60677.230	5.0
185.7993	26.00	-5.04	415.932	3.0	54237.460	4.0	186.0501	25.01	-.64	30679.240	5.0	84428.210	5.0
185.8026	23.01	-5.61	106.630	2.0	53927.190	3.0	186.0526	24.00	-3.36	7927.470	2.0	61675.720	2.0
185.8032	12.02	-2.09	532971.200	3.0	586791.600	2.0	186.0527	27.02	-3.37	77622.			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
186.1512	26.01	-4.15	22409.820	5	76129.580	1.5	186.3725	24.01	-4.19	32855.090	2.5	86511.080	1.5
186.1542	17.01	-2.67	128729.800	3.0	182448.700	2.0	186.3751	28.01	-2.21	52205.950	3.5	105861.190	2.5
186.1544	8.01	-3.83	211712.660	2.5	265431.500	2.5	186.3766	9.02	-4.44	390834.600	2.5	444489.400	2.5
186.1563	23.01	-4.61	208.890	3.0	53927.190	3.0	186.3800	25.02	-1.72	84981.630	3.5	138635.460	2.5
186.1573	23.03	3.38	100200.700	2.0	153918.700	3.0	186.3825	27.02	3.35	71623.100	6.5	125276.200	6.5
186.1582	25.02	-2.53	94850.660	1.5	148568.400	2.5	186.3829	26.02	-4.01	134360.400	4.0	188013.400	4.0
186.1591	9.02	0.07	390834.600	2.5	444552.080	3.5	186.3850	13.01	-1.73	95546.800	3.0	149199.200	3.0
186.1609	9.02	-1.62	390210.430	3.5	443927.410	3.5	186.3853	24.01	-4.13	32855.090	2.5	86507.380	2.5
186.1625	24.00	-3.75	7810.820	1.0	61527.340	1.0	186.3863	18.01	-1.69	155043.070	2.5	208695.070	1.5
186.1632	29.01	-2.24	71531.500	3.0	125247.800	2.0	186.3882	27.01	-1.26	10708.100	3.0	64359.560	3.0
186.1636	25.02	-2.17	86578.240	3.5	140294.440	3.5	186.3888	13.01	-0.82	95547.900	2.0	149199.200	3.0
186.1639	28.02	-4.37	76237.800	3.0	129953.900	3.0	186.3905	27.02	-0.18	72341.900	1.5	125992.700	2.5
186.1663	23.01	-5.86	36.050	1.0	53751.460	1.0	186.3922	23.02	-1.84	87880.850	2.5	141531.170	1.5
186.1671	26.02	-2.78	69837.760	2.0	123552.950	1.0	186.3967	26.02	-1.42	88663.870	4.0	142312.900	3.0
186.1671	25.01	-0.95	14781.190	2.0	68496.370	1.0	186.3977	26.02	-1.66	93512.640	4.0	147161.360	4.0
186.1674	27.02	-1.36	77383.100	3.5	131098.200	4.5	186.3988	25.02	-0.83	94707.200	4.5	148355.600	3.5
186.1690	25.01	-1.43	55759.270	3.0	109473.900	4.0	186.4007	25.01	-1.74	27589.030	2.0	81236.890	1.0
186.1704	23.02	-0.47	87218.920	3.5	140933.140	3.5	186.4113	23.01	-6.73	106.630	2.0	53751.460	1.0
186.1778	27.02	3.39	73286.000	4.5	126998.100	4.5	186.4116	9.02	-3.97	413143.860	3.5	466788.600	2.5
186.1795	14.00	-3.49	6298.850	2.0	60010.458	1.0	186.4132	26.02	-4.74	132659.170	4.0	186303.440	3.0
186.1810	9.02	-1.62	414894.890	4.5	468606.050	3.5	186.4149	28.01	-3.12	68156.570	1.5	121800.340	1.5
186.1814	9.02	0.02	414894.890	4.5	468605.940	4.5	186.4157	28.01	-4.55	68281.620	5	121925.160	5
186.1816	23.02	-2.79	101785.810	1.5	155496.800	1.5	186.4168	9.02	-3.07	413143.860	3.5	466787.080	4.5
186.1840	25.01	-3.25	49889.860	3.0	103600.170	2.0	186.4190	27.02	-1.19	77411.600	5.5	131054.200	5.5
186.1853	23.02	-2.82	102961.280	3.5	156671.200	2.5	186.4200	15.01	-1.05	77711.000	2.0	131353.300	2.0
186.1858	17.01	-4.36	128662.500	2.0	182372.300	1.0	186.4205	10.01	-2.64	249108.640	3.5	302750.810	3.5
186.1894	25.01	-5.31	27570.950	5.0	81279.710	4.0	186.4255	24.00	-5.50	0.000	3.0	53640.740	3.0
186.1909	9.02	-0.05	414897.720	3.5	468606.050	3.5	186.4268	25.02	-2.77	86654.070	4.5	140294.440	3.5
186.1912	9.02	-3.59	414897.720	3.5	468605.940	4.5	186.4277	25.01	-3.79	29889.310	3.0	83529.400	4.0
186.1916	26.02	-3.49	135316.420	5.0	189024.530	5.0	186.4300	29.01	-1.65	85388.770	2.0	139028.200	2.0
186.1939	20.02	-2.73	227432.110	1.0	281139.550	1.0	186.4322	18.01	-2.46	150474.900	1.5	204113.710	1.5
186.1949	27.01	-3.64	11321.500	2.0	65028.650	1.0	186.4341	24.01	-3.36	19798.010	2.5	73436.270	2.5
186.1955	26.02	-4.39	82410.940	2.0	136117.940	2.0	186.4345	15.00	-3.44	18747.950	1.5	72386.100	2.5
186.1955	10.03	-4.63	532978.000	1.5	586685.000	1.5	186.4354	26.01	-2.85	18886.750	5	72524.620	1.5
186.2008	18.01	-2.29	155708.020	5	209413.480	1.5	186.4375	25.01	-4.58	27583.300	4.0	81220.580	3.0
186.2086	25.02	-2.35	62988.920	3.5	116692.140	2.5	186.4414	25.01	-0.92	14781.190	2.0	68417.340	2.0
186.2097	9.02	-1.46	390210.430	3.5	443913.330	4.5	186.4432	9.02	-1.57	390834.600	2.5	444470.240	1.5
186.2109	25.02	-2.92	86578.240	3.5	140280.800	4.5	186.4434	26.02	-1.80	83161.480	4.0	136797.050	3.0
186.2229	29.01	-2.80	71531.500	3.0	125230.600	3.0	186.4445	23.01	-2.77	11295.150	0.0	64930.760	1.0
186.2256	8.01	-4.89	211521.980	1.5	265220.300	1.5	186.4467	28.01	-5.30	0.000	2.5	53634.620	1.5
186.2256	8.01	-3.13	211521.980	1.5	265220.300	2.5	186.4473	18.02	-1.94	186657.200	3.0	240291.660	2.0
186.2313	27.01	-1.16	9812.700	4.0	63509.370	4.0	186.4505	23.02	-0.90	49327.740	2.5	102961.280	3.5
186.2322	25.01	-3.02	27583.300	4.0	81279.710	4.0	186.4522	26.02	-0.68	90483.590	3.0	144116.640	3.0
186.2327	26.00	-0.81	415.932	3.0	54112.203	2.0	186.4542	25.01	-1.40	30795.750	4.0	84428.210	5.0
186.2336	27.02	-1.80	78927.800	3.5	132623.800	3.5	186.4546	25.01	-8.71	27588.230	3.0	81220.580	3.0
186.2356	26.02	-3.82	135316.420	5.0	189011.840	4.0	186.4555	28.01	-1.21	52205.950	3.5	105838.060	3.5
186.2359	27.01	-4.82	11321.500	2.0	65016.830	2.0	186.4574	25.01	-4.56	27589.030	2.0	81220.580	3.0
186.2366	25.02	-3.04	91948.300	3.5	145643.450	2.5	186.4619	18.01	-3.32	155043.070	2.5	208673.320	2.5
186.2378	23.01	-0.21	16533.000	5.0	70227.800	5.0	186.4651	26.01	-0.95	20340.360	5.5	73969.710	5.5
186.2390	23.02	-1.13	56160.420	2.5	109854.870	3.5	186.4668	25.02	-3.14	86578.240	3.5	140207.090	2.5
186.2403	8.01	-2.51	212161.940	1.5	265856.000	2.5	186.4699	25.01	-2.11	30679.240	5.0	84307.200	4.0
186.2416	11.02	-0.45	418556.900	5	472250.600	5	186.4702	9.02	-3.20	413143.860	3.5	466771.720	3.5
186.2426	27.01	-2.73	10708.100	3.0	64401.500	4.0	186.4712	26.01	-6.16	862.630	1.5	54490.200	2.5
186.2437	9.02	0.29	390077.800	2.5	443770.900	3.5	186.4738	23.02	-1.12	87880.850	2.5	141507.700	3.5
186.2441	25.02	-4.18	86486.770	1.5	140179.740	2.5	186.4742	25.02	-1.49	86654.070	4.5	140280.800	4.5
186.2442	26.02	-0.53	90423.680	2.0	144116.640	3.0	186.4742	9.02	-2.59	413195.000	2.5	466821.720	3.5
186.2478	13.01	-0.32	37579.300	2.0	91271.200	1.0	186.4747	26.01	-0.29	20340.360	5.5	73966.940	6.5
186.2493	25.01	-3.37	27588.230	3.0	81279.710	4.0	186.4772	26.02	-1.10	82382.870	3.0	136008.740	3.0
186.2495	26.01	-3.63	44753.820	3.5	98445.240	4.5	186.4772	10.01	-4.86	249445.990	2.5	303071.840	2.5
186.2525	25.01	-1.00	14593.820	3.0	68284.380	3.0	186.4828	25.02	-3.01	84610.530	5	138234.790	1.5
186.2598	26.02	-3.00	135990.620	4.0	189679.070	3.0	186.4863	28.01	-4.67	67694.640	2.5	121317.890	3.5
186.2624	26.02	-8.34	35803.700	2.0	89491.390	1.0	186.4869	26.02	-1.87	82494.880	1.0	136117.940	2.0
186.2628	24.01	-3.24	19798.010	2.5	73485.600	3.5	186.4890	24.00	-2.36	8307.570	4.0	61930.050	3.0
186.2630	28.01	-2.24	77736.790	4.5	131424.320	5.5	186.4944	26.00	-4.05	6928.266	5.0	60549.180	5.0
186.2662	27.02	-0.23	77411.600	5.5	131098.200	4.5	186.4969	27.02	-2.85	85517.300	5.5	139137.500	5.5
186.2678	25.02	-2.14	86520.940	2.5	140207.090	2.5	186.5016	18.01	-3.70	161048.640	1.5	214667.480	2.5
186.2701	23.01	-3.38	14461.730	3.0	68147.200	4.0	186.5028	14.00	-4.00	6298.850	2.0	59917.336	2.0
186.2790	13.02	-0.24	0.000	5	53682.930	5	186.5070	24.02	-4.81	43304.100	2.0	96921.400	2.0
186.2802	26.01	-2.67	18360.650	1.5	72043.210	1.5	186.5091	27.02	-3.42	76791.100	1.5	130407.800	2.5
186.2802	14.02	-0.93	204330.790	2.0	258013.370	3.0	186.5155	25.01	-1.86	38901.800	4.0	92516.650	4.0
186.2863	27.02	-4.49	77121.100	4.5	130801.900	4.5	186.5187	24.01	-2.69	19798.010	2.5	73411.940	1.5
186.2883	18.01	-2.77	135085.920	1.5	188766.150	2.5	186.5201	26.02	0.33	97041.380	3.0	150654.900	3.0
186.2926	11.05	-0.65	951389.000	2.0	1005068.000	1.0	186.5204	23.01	-6.83	12545.150	4.0	66158.600	4.0
186.2940	10.01	-2.30	249839.630	5	303518.210	1.5	186.5308	26.00	-9.66	0.000	4.0	53610.440	4.0
186.2957	26.02	-3.58	136117.940	2.0	189796.030	1.0	186.5402	26.02	-0.88	82382.870	3.0	135990.620	4.0
186.2965	9.02	-2.54	413143.860	3.5	466821.720	3.5	186.5407	23.02	-1.66	102075.000	2.5	155662.600	3.5
186.2995	24.03	0.23	104265.000	2.5	157942.000	3.5	186.5421	27.02	-0.28	72083.300	4.5	125690.500	3.5
186.3012	26.02	-2.36	135279.040	2.0	188955.560	3.0	186.5431						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
186.6089	18.01	-1.29	142717.020	3.5	196305.040	3.5	186.8598	26.02	-1.67	84671.870	3.0	138187.930	3.0
186.6090	23.01	-4.42	339.210	4.0	53927.190	3.0	186.8632	10.01	-3.10	249445.990	2.5	302961.070	1.5
186.6132	26.02	-1.22	105906.230	2.0	159493.000	3.0	186.8633	9.01	-1.88	236195.140	3.0	289710.200	2.0
186.6166	28.02	-1.95	62606.300	3.0	116192.100	4.0	186.8637	25.01	-3.79	32787.600	4.0	86302.550	3.0
186.6173	28.01	-3.24	75917.630	3.5	129503.240	4.5	186.8642	24.00	-1.81	7593.160	2.0	61107.950	2.0
186.6215	26.02	-4.51	136200.130	3.0	189784.520	2.0	186.8655	8.00	-2.83	73768.212	2.0	127282.626	3.0
186.6215	25.01	-1.96	14325.860	4.0	67910.260	4.0	186.8660	18.01	-4.65	143107.600	2.5	196621.880	3.5
186.6215	10.01	-2.57	249695.530	1.5	303279.910	2.5	186.8679	26.02	-4.82	148915.300	1.0	202429.040	1.0
186.6224	25.02	-2.25	94771.470	2.5	148355.600	3.5	186.8696	9.02	-4.68	413195.000	2.5	466708.250	1.5
186.6244	24.01	-2.71	32355.940	3.5	85939.500	4.5	186.8703	9.02	-4.34	390976.350	1.5	444489.400	2.5
186.6255	25.01	-1.80	30684.810	1.0	84268.060	1.0	186.8724	25.02	-4.87	90746.060	5.5	144258.500	6.5
186.6255	18.01	-3.84	150147.620	2.5	203730.860	1.5	186.8725	23.02	-2.70	56669.050	1.5	110181.470	2.5
186.6257	26.01	-5.48	8391.920	2.5	61975.110	1.5	186.8748	28.01	-3.93	1506.940	1.5	55018.710	2.5
186.6277	28.01	-2.86	53037.930	2.5	106620.530	3.5	186.8759	25.01	-4.93	30795.750	4.0	84307.200	4.0
186.6287	26.02	-4.61	134549.380	1.0	188131.700	1.0	186.8765	14.01	-1.29	55309.610	1.5	108820.900	2.5
186.6306	26.02	-1.25	63486.780	4.0	117068.560	3.0	186.8768	9.01	-4.97	236195.140	3.0	289706.330	3.0
186.6325	9.01	-1.53	235642.480	1.0	289223.730	1.0	186.8789	27.02	-1.36	73540.200	3.5	127050.800	4.5
186.6350	24.00	-3.33	8095.210	3.0	61675.720	2.0	186.8858	24.01	-4.36	31168.780	3.5	84677.390	3.5
186.6418	9.02	-4.27	413143.860	3.5	466722.420	2.5	186.8892	8.01	-4.34	211712.660	2.5	265220.300	1.5
186.6471	24.00	-4.17	7810.820	1.0	61387.860	0.0	186.8892	8.01	-4.76	211712.660	2.5	265220.300	2.5
186.6473	9.02	-4.80	466196.700	3.5	519773.700	3.5	186.8911	25.03	-1.85	119445.500	2.0	172952.600	3.0
186.6482	9.02	-3.01	413195.000	2.5	466771.720	3.5	186.8932	25.01	-8.99	29869.110	2.0	83375.600	3.0
186.6493	27.02	-1.28	56794.800	1.5	110371.200	2.5	186.8957	26.02	-3.86	125672.830	2.0	179178.620	3.0
186.6502	28.01	-1.06	67880.160	2.5	121456.320	1.5	186.8962	28.01	-2.27	67880.160	2.5	121385.600	1.5
186.6508	24.01	-1.76	51789.210	3.5	105365.200	4.5	186.9047	25.01	-1.79	14781.190	2.0	68284.380	3.0
186.6519	25.01	-4.28	53597.130	2.0	107172.600	3.0	186.9062	22.01	-2.05	93.940	2.5	53596.700	1.5
186.6558	26.02	-1.76	63494.000	3.0	117068.560	3.0	186.9079	26.02	-1.37	93388.750	4.0	146891.040	3.0
186.6577	26.02	-1.89	63494.560	2.0	117068.560	3.0	186.9091	28.01	-4.26	75917.630	3.5	129419.580	4.5
186.6618	28.01	-2.78	66571.340	2.5	120144.170	2.5	186.9169	25.02	-4.45	94707.200	4.5	148206.900	5.5
186.6633	28.02	-1.48	154170.600	3.0	207743.000	3.0	186.9190	25.01	-4.23	54938.100	1.0	108437.200	2.0
186.6677	23.01	-1.60	16340.970	3.0	69912.100	4.0	186.9208	23.02	-4.15	99440.100	2.5	152939.200	2.5
186.6734	23.02	-4.64	43942.490	1.5	97512.000	1.5	186.9208	26.02	-1.38	93392.450	3.0	146891.040	3.0
186.6817	26.00	-1.23	704.003	2.0	54271.110	1.0	186.9246	26.01	-9.36	25787.600	1.5	79285.100	2.5
186.6832	23.01	-7.40	2604.820	1.0	56171.490	1.0	186.9246	25.01	-4.53	54938.100	1.0	108435.600	1.0
186.6845	25.02	-2.11	63285.370	4.5	116851.690	3.5	186.9258	26.02	-3.62	87901.870	3.0	141399.040	2.0
186.6885	26.02	-3.30	143320.850	6.0	196886.010	6.0	186.9318	14.01	-1.17	55325.440	2.5	108820.900	2.5
186.6893	25.02	-2.68	90746.060	5.5	144311.000	5.5	186.9364	9.02	-1.59	413143.860	3.5	466637.990	4.5
186.6903	26.02	-1.45	87901.870	3.0	141466.530	3.0	186.9365	23.02	-2.43	102075.000	2.5	155569.100	2.5
186.6922	26.01	-3.08	8680.470	1.5	62244.570	1.5	186.9369	27.01	-3.40	9812.700	4.0	63306.700	5.0
186.6931	26.02	-1.03	105929.160	3.0	159493.000	3.0	186.9372	9.02	-4.80	390976.350	1.5	444470.240	1.5
186.7023	27.02	-2.33	78927.800	3.5	132489.000	2.5	186.9395	26.02	-3.27	146891.040	3.0	200384.280	3.0
186.7026	26.02	-4.61	136117.940	2.0	189679.070	3.0	186.9397	23.01	-3.11	8640.210	2.0	62133.390	3.0
186.7034	29.02	-1.88	67016.600	3.5	120577.500	2.5	186.9410	11.02	-3.39	414281.000	2.5	467773.800	2.5
186.7043	26.02	-1.75	143320.850	6.0	196881.470	7.0	186.9453	23.01	-0.87	14655.630	5.0	68147.200	4.0
186.7049	9.02	-3.38	390210.430	3.5	443770.900	3.5	186.9459	26.02	-3.75	128917.510	2.0	182408.910	3.0
186.7055	18.01	-1.52	155708.020	5.5	209268.310	1.5	186.9488	23.01	-1.34	16421.510	4.0	69912.100	4.0
186.7058	26.02	-4.66	136235.840	1.0	189796.030	1.0	186.9549	26.01	-3.90	45079.910	2.5	98568.750	3.5
186.7067	26.02	-3.17	134549.380	1.0	188109.320	0.0	186.9599	24.01	-2.67	31117.590	2.5	84604.990	2.5
186.7072	24.01	-2.39	31117.590	2.5	84677.390	3.5	186.9638	25.01	-3.53	29889.310	3.0	83375.600	3.0
186.7085	25.01	-4.74	27588.230	3.0	81147.650	2.0	186.9652	25.01	-3.46	14325.860	4.0	67811.750	3.0
186.7093	26.02	-1.60	83237.860	3.0	136797.050	3.0	186.9692	23.01	-3.16	22273.540	1.0	75758.290	2.0
186.7113	25.01	-4.59	27589.030	2.0	81147.650	2.0	186.9738	23.02	-0.75	99804.570	2.5	153288.000	1.5
186.7121	26.02	-4.19	151534.130	3.0	205092.530	4.0	186.9760	9.02	-4.94	466290.900	4.5	519773.700	4.5
186.7155	26.01	-5.19	7955.240	3.5	61512.670	4.5	186.9761	26.01	-1.41	30388.550	4.5	83871.310	4.5
186.7182	28.01	-3.25	75917.630	3.5	129474.270	3.5	186.9809	27.01	-5.07	27585.300	1.0	81066.700	0.0
186.7196	26.02	-3.99	125637.980	3.0	179194.220	4.0	186.9821	26.02	-2.08	63494.560	3.0	116975.050	2.0
186.7206	26.02	-0.96	83237.860	3.0	136793.820	2.0	186.9822	28.01	-2.70	53601.190	1.5	107082.210	2.5
186.7243	22.01	-2.74	0.000	1.5	53554.900	2.5	186.9841	26.02	-2.73	63494.560	2.0	116975.050	2.0
186.7249	26.02	-4.82	151537.800	4.0	205092.530	4.0	186.9895	26.02	-4.78	136200.130	3.0	189679.070	3.0
186.7303	9.02	-1.41	390077.800	2.5	443630.960	3.5	186.9898	24.01	-1.68	51943.040	4.5	105421.900	5.5
186.7460	26.02	-4.25	136235.840	1.0	189784.520	2.0	186.9924	26.02	-0.03	93412.930	2.0	146891.040	3.0
186.7487	27.02	-0.23	71873.700	5.5	125421.600	4.5	187.0011	26.00	-1.88	415.932	3.0	53891.540	3.0
186.7500	9.02	-2.88	390077.800	2.5	443625.310	2.5	187.0022	27.02	-1.37	77622.900	4.5	131098.200	4.5
186.7508	28.02	-1.84	103306.100	3.0	156853.400	3.0	187.0031	26.02	-4.95	128917.510	2.0	182392.550	2.0
186.7522	26.02	-2.65	146891.040	3.0	200437.940	2.0	187.0048	26.02	-2.02	83138.230	5.0	136612.780	4.0
186.7529	24.02	-3.94	63420.300	3.0	116967.000	4.0	187.0110	24.00	-2.03	7593.160	2.0	61065.960	1.0
186.7536	25.01	-2.55	52718.800	0.0	106265.300	1.0	187.0147	9.02	-4.03	466301.960	2.5	519773.700	3.5
186.7546	26.01	-6.88	23031.300	1.5	76577.500	5.5	187.0168	26.01	-4.62	8680.470	1.5	62151.610	2.5
186.7588	9.02	-4.44	390080.300	1.5	443625.310	2.5	187.0176	9.02	-3.95	466302.800	3.5	519773.700	4.5
186.7598	28.01	-3.05	68154.310	1.5	121699.020	1.5	187.0203	26.02	-1.32	135554.410	4.0	189024.530	5.0
186.7658	26.01	-2.11	18886.750	5.5	72429.740	5.5	187.0229	24.02	-5.07	43304.100	2.0	96773.500	1.0
186.7671	9.02	-2.35	390210.430	3.5	443753.060	2.5	187.0229	14.01	-0.37	55309.610	1.5	108779.000	1.5
186.7679	10.01	-3.31	249695.530	1.5	303237.910	1.5	187.0266	25.01	-2.35	27583.300	4.0	81051.620	3.0
186.7700	28.02	-0.78	84604.800	1.0	138146.600	0.0	187.0267	20.02	-0.54	228413.950	3.0	281882.240	2.0
186.7703	29.02	-1.60	85446.400	1.5	138988.100	1.5	187.0293	26.02	-4.32	151534.900	2.0	205002.470	3.0
186.7719	24.00	-0.33	0.000	3.0	53541.250	2.0	187.0343	25.01	-2.19	27588.230	3.0	81054.350	2.0
186.7727	28.01	-3.98	53601.190	1.5	107142.210	1.5	187.0371	25.01	-1.93	27589.030	2.0	81054.350	2.0
186.7740	26.02	-4.92	125637.980	3.0									

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
187.1322	26.02	-4.72	83358.880	2.0	136797.050	3.0	187.4066	24.02	-4.05	63172.200	2.0	116532.100	3.0
187.1332	28.01	-3.19	73893.730	1.5	127331.600	2.5	187.4098	25.02	-2.14	84981.630	3.5	138340.620	2.5
187.1347	26.00	-4.38	6928.266	5.0	60365.700	6.0	187.4110	25.02	-3.66	120974.250	5.5	174332.910	1.5
187.1373	27.02	-1.92	77472.300	2.5	130909.000	1.5	187.4184	25.01	-2.30	53017.160	1.0	106373.700	2.0
187.1388	25.01	-1.24	34761.810	5.0	88198.070	6.0	187.4214	26.03	-4.44	138336.300	2.5	191692.000	1.5
187.1490	24.01	-4.63	31168.780	3.5	84604.990	2.5	187.4228	11.02	-2.83	415173.200	1.5	468528.500	1.5
187.1435	26.02	-4.80	83358.880	2.0	136793.820	2.0	187.4255	18.02	-1.93	186903.050	2.0	240257.590	1.0
187.1449	26.02	-3.40	146891.040	3.0	200325.560	4.0	187.4267	18.01	-3.61	150147.620	2.5	203501.800	2.5
187.1503	23.02	-1.24	91710.430	3.5	145143.430	4.5	187.4271	28.01	-3.92	75917.630	3.5	129271.720	3.5
187.1554	28.01	-2.85	66571.340	2.5	120002.860	3.5	187.4281	25.01	-3.70	32836.400	1.0	86190.180	2.0
187.1562	27.02	-2.29	77622.900	4.5	131054.200	5.5	187.4309	24.02	-4.05	63038.600	1.0	116391.600	2.0
187.1564	26.02	-1.64	84671.870	3.0	138103.120	4.0	187.4332	26.02	-1.18	88694.670	5.0	142047.000	4.0
187.1583	23.02	-3.31	99508.500	1.5	152939.200	2.5	187.4347	27.02	-1.19	73540.200	3.5	126892.100	3.5
187.1609	26.00	-5.69	7376.762	4.0	60806.720	3.0	187.4393	28.01	-2.39	68735.980	2.5	122086.580	3.5
187.1657	26.01	-3.83	33501.320	3.5	86929.920	3.5	187.4420	26.01	-7.49	25981.650	3.5	79331.490	3.5
187.1723	24.02	-3.17	43286.400	4.0	96713.100	3.0	187.4425	9.02	-4.45	413195.000	2.5	466544.700	1.5
187.1837	25.02	-2.99	86520.940	2.5	139944.400	3.5	187.4430	25.01	-4.46	32858.840	2.0	86208.400	1.0
187.1863	9.02	-1.03	391047.540	5.5	444470.240	1.5	187.4437	28.01	-4.53	55018.710	2.5	108368.050	2.5
187.1870	27.02	-2.27	71873.700	5.5	125296.200	5.5	187.4439	27.02	-1.88	78927.800	3.5	132277.100	3.5
187.1882	24.01	-3.35	51943.040	4.5	105365.200	4.5	187.4449	23.01	-1.03	14556.090	4.0	67905.100	3.0
187.1895	23.02	-3.79	102075.000	2.5	155496.800	1.5	187.4507	26.00	-3.91	415.932	3.0	53763.280	3.0
187.1939	9.02	-4.03	390210.430	3.5	443630.960	3.5	187.4572	25.02	-3.92	121091.080	1.5	174436.590	2.5
187.1958	27.02	-0.09	72270.500	3.5	125690.500	3.5	187.4593	12.03	-0.34	543727.000	2.5	597071.900	1.5
187.2000	27.02	-0.66	77383.100	3.5	130801.900	4.5	187.4616	28.01	-1.87	68735.980	2.5	122080.250	2.5
187.2088	27.02	-1.49	86327.100	3.5	139743.400	2.5	187.4624	18.01	-1.58	155351.030	1.5	208695.070	1.5
187.2098	23.01	-2.98	11514.760	1.0	64930.760	1.0	187.4732	38.01	-1.98	24516.650	0.0	77857.608	0.0
187.2138	9.02	-4.44	390210.430	3.5	443625.310	2.5	187.4755	9.03	-2.29	452081.100	2.0	505421.400	3.0
187.2142	18.01	-2.72	155351.030	1.5	208765.770	5.5	187.4823	28.01	-2.58	66571.340	2.5	119909.720	1.5
187.2203	26.02	-1.18	89907.850	5.0	143320.850	6.0	187.4825	27.02	-0.04	72083.300	4.5	125421.600	4.5
187.2235	24.01	-2.44	20024.180	3.5	73436.270	2.5	187.4842	14.00	-1.60	6298.850	2.0	59636.667	1.0
187.2274	26.01	-2.50	20340.360	5.5	73751.340	4.5	187.4886	25.01	-6.20	29919.220	2.0	83255.800	2.0
187.2290	10.01	-1.27	274364.570	2.5	327775.110	3.5	187.4967	23.01	-2.05	8841.970	3.0	62176.240	4.0
187.2332	15.01	-2.83	76764.960	2.0	130174.300	2.0	187.4971	26.01	-2.05	8391.920	2.5	61726.090	3.5
187.2339	26.02	-4.93	151534.130	3.0	204943.260	2.0	187.5004	25.01	-3.94	32856.950	3.0	86190.180	2.0
187.2343	28.01	-4.51	68735.980	2.5	122144.990	2.5	187.5069	28.01	-1.33	53037.930	2.5	106369.300	1.5
187.2344	24.02	-5.18	43304.100	2.0	96713.100	3.0	187.5070	25.01	-4.41	32858.840	2.0	86190.180	2.0
187.2370	20.02	-0.61	226333.560	3.0	279741.800	2.0	187.5077	26.02	-2.91	136464.900	1.0	189796.030	1.0
187.2372	26.00	-1.02	704.003	2.0	54112.203	2.0	187.5080	25.02	-3.94	84981.630	3.5	138312.700	4.5
187.2428	26.02	-4.47	151536.680	1.0	204943.260	2.0	187.5093	27.02	-0.20	73540.200	3.5	126870.900	2.5
187.2482	25.02	-1.43	85200.760	5.5	138605.600	6.5	187.5117	28.01	-4.48	66579.710	1.5	119909.720	1.5
187.2502	28.01	-2.46	68156.570	1.5	121561.060	5.5	187.5137	22.01	-1.26	225.470	3.5	53554.900	2.5
187.2511	26.02	-1.11	63494.000	3.0	116898.220	2.0	187.5200	25.01	-2.79	37851.150	3.0	91178.800	4.0
187.2529	27.02	-0.35	85517.300	5.5	138921.000	4.5	187.5208	26.01	-2.42	13673.210	1.5	67000.630	2.5
187.2531	26.02	-0.67	63494.560	2.0	116898.220	2.0	187.5223	10.03	-0.25	479651.000	2.5	532978.000	1.5
187.2572	27.02	-0.32	71873.700	5.5	125276.200	6.5	187.5246	26.01	-4.15	18886.750	5.5	72213.100	5.5
187.2589	18.01	-1.45	142717.020	3.5	196119.020	3.5	187.5249	24.01	-1.89	31351.150	2.5	84677.390	3.5
187.2590	23.02	-3.92	44110.040	2.5	97512.000	1.5	187.5356	25.01	-4.00	55115.800	2.0	108439.000	3.0
187.2619	26.02	-3.96	135554.410	4.0	188955.560	3.0	187.5388	18.01	-2.91	155351.030	1.5	208673.320	2.5
187.2719	10.01	-2.46	249839.630	5.5	303237.910	1.5	187.5420	25.01	-4.38	55115.800	2.0	108437.200	2.0
187.2736	26.01	-4.58	8846.760	5.5	62244.570	1.5	187.5427	17.02	-2.61	201765.100	2.5	255086.300	3.5
187.2810	9.02	-1.06	416168.300	1.5	469564.010	5.5	187.5451	26.03	-0.72	137698.900	5.5	191019.400	5.5
187.2832	24.01	-0.43	12148.000	2.5	65543.060	3.5	187.5482	26.02	-2.76	136464.900	1.0	189784.520	2.0
187.2845	28.01	-2.91	52738.450	2.5	106133.140	1.5	187.5515	24.02	-3.50	101745.300	3.0	155064.000	4.0
187.2860	25.02	-3.55	121480.240	3.5	174874.500	4.5	187.5542	9.02	-4.46	391257.420	2.5	444575.350	2.5
187.2895	-10.01	-1.90	249445.990	2.5	302839.280	2.5	187.5594	25.01	-1.75	14593.820	3.0	67910.260	4.0
187.2895	9.02	-1.85	416168.300	1.5	469561.580	1.5	187.5624	23.02	-0.78	87880.850	2.5	141196.430	2.5
187.2961	24.02	-5.29	43321.700	3.0	96713.100	3.0	187.5638	24.00	-1.81	7750.780	0.0	61065.960	1.0
187.2971	25.01	-3.60	53781.700	3.0	107172.800	3.0	187.5756	29.01	-2.68	69704.800	4.0	123016.630	3.0
187.2990	26.02	-2.55	66591.680	1.0	119982.260	1.0	187.5762	24.00	-6.16	7593.160	2.0	60904.840	3.0
187.2999	25.01	-4.32	32818.100	0.0	86208.400	1.0	187.5772	25.00	-1.56	0.000	2.5	53311.370	1.5
187.2999	27.02	-1.91	77411.600	5.5	130801.900	4.5	187.5775	28.01	-4.91	68735.980	2.5	122047.290	3.5
187.3026	23.02	-1.34	87880.850	2.5	141270.400	3.5	187.5813	14.00	-3.03	77.115	1.0	53387.334	1.0
187.3047	25.01	-0.96	30523.450	6.0	83912.380	5.0	187.5848	10.01	-4.37	252953.540	1.5	306262.770	1.5
187.3056	23.02	-2.85	87544.460	4.5	140933.140	3.5	187.5856	10.05	-0.25	763098.000	5.5	816405.600	1.5
187.3059	18.02	-2.41	186903.050	2.0	240291.660	2.0	187.5890	23.02	-0.46	99804.570	2.5	153112.600	3.5
187.3103	14.00	-2.51	0.000	0.0	53387.334	1.0	187.5935	18.01	-4.97	148842.370	2.5	202149.110	2.5
187.3131	23.02	-1.31	88327.960	3.5	141714.500	2.5	187.5952	26.02	-1.91	135705.570	3.0	189011.840	4.0
187.3140	18.01	-0.09	142717.020	3.5	196103.310	4.5	187.5952	8.01	-2.87	212161.940	1.5	265468.200	5.5
187.3147	27.01	-5.94	27585.300	1.0	80971.400	1.0	187.5952	8.01	-4.92	212161.940	1.5	265468.200	1.5
187.3251	26.02	-1.80	88663.870	4.0	142047.000	4.0	187.5997	24.03	-1.11	104637.000	3.5	157942.000	3.5
187.3256	26.00	-1.11	888.132	1.0	54271.110	1.0	187.6003	10.01	-1.45	249445.990	2.5	302750.810	3.5
187.3258	28.01	-2.08	52205.950	3.5	105588.890	4.5	187.6008	25.01	-4.97	29951.120	1.0	83255.800	2.0
187.3263	12.02	-0.01	530962.900	0.0	584345.700	1.0	187.6018	27.01	-4.89	27484.300	3.0	80788.700	2.0
187.3319	11.02	-0.88	440472.000	2.5	493853.200	1.5	187.6051	26.01	-7.20	25981.650	3.5	79265.100	2.5
187.3320	25.02	-2.41	84981.630	3.5	138362.800	3.5	187.6059	23.01	-0.43	16340.970	3.0	69644.200	3.0
187.3329	26.00	-4.05	7376.762	4.0	60757.680	4.0	187.6107	25.01	-3.17	33147.390	5.0	86449.240	4.0
187.3347	29.02	-1.87	89045.900	3.5	142426.300	2.5	187.6144	26.00	-1.94	704.003	2.0	54004.820	3.0
187.3392	23.01	-1.17	16533.000	5.0	6								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUF	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUF	JUP
187.7017	27.00	-4.18	0.000	4.5	53276.020	4.5	187.9912	24.01	-3.56	38362.560	1.5	91556.540	1.5
187.7028	13.01	-3.05	95546.800	3.0	148822.500	2.0	187.9916	26.02	-4.65	134937.840	2.0	188131.700	1.0
187.7028	13.01	-1.88	95546.800	3.0	148822.500	3.0	188.0011	26.02	-1.20	84369.920	2.0	137561.100	1.0
187.7028	13.01	-0.45	95546.800	3.0	148822.500	4.0	188.0027	26.01	-8.33	26055.400	2.5	79246.130	1.5
187.7067	13.01	-1.51	95547.900	2.0	148822.500	2.0	188.0045	26.01	-5.96	22939.350	2.5	76129.580	1.5
187.7067	13.01	-0.97	95547.900	2.0	148822.500	3.0	188.0050	26.01	-1.11	21308.080	1.5	74498.150	1.5
187.7083	25.01	-4.98	32787.600	4.0	86061.750	3.0	188.0099	17.02	-3.51	151848.600	2.5	205037.300	1.5
187.7099	13.01	-0.78	95548.800	1.0	148822.500	2.0	188.0112	26.01	-3.55	26055.400	2.5	79243.730	1.5
187.7110	25.02	-3.61	120974.250	5	174247.630	5	188.0120	24.00	-6.54	7593.160	2.0	60781.250	2.0
187.7165	25.01	-2.29	14593.820	3.0	67865.630	4.0	188.0140	26.00	-2.78	704.003	2.0	53891.540	3.0
187.7187	24.00	-2.29	7927.470	2.0	61198.680	3.0	188.0170	28.01	-4.12	68131.210	3.5	121317.890	3.5
187.7213	25.01	-4.37	48317.850	4.0	101588.300	3.0	188.0176	7.02	.51	334542.200	1.5	387728.700	2.5
187.7240	28.01	-3.14	78955.450	1.5	132225.150	1.5	188.0236	13.01	-1.75	95546.800	3.0	148731.600	3.0
187.7240	12.02	-1.71	479456.000	1.0	532725.700	2.0	188.0275	13.01	-0.85	95547.900	2.0	148731.600	3.0
187.7245	8.01	-4.99	212161.940	1.5	265431.500	2.5	188.0287	24.01	-7.03	12496.790	4.5	65680.150	4.5
187.7249	28.01	-2.40	52738.450	2.5	106007.890	2.5	188.0347	25.01	-3.92	29889.310	3.0	83070.970	2.0
187.7351	26.01	-3.57	33501.320	3.5	86767.870	2.5	188.0389	24.00	-1.35	7927.470	2.0	61107.950	2.0
187.7386	10.01	-1.77	246965.530	1.5	302961.070	1.5	188.0404	29.01	-2.49	88362.030	2.0	141542.100	2.0
187.7455	26.02	-2.19	136532.450	2.0	189796.030	1.0	188.0415	23.02	-0.22	88327.960	3.5	141507.700	3.5
187.7460	26.02	-1.28	84159.550	4.0	137423.000	3.0	188.0417	29.02	-2.14	144194.200	2.5	197373.900	3.5
187.7462	27.01	-1.51	11651.310	2.0	64914.710	2.0	188.0430	28.01	-4.86	68965.650	1.5	122144.990	2.5
187.7465	27.02	-0.39	73286.000	4.5	126549.300	3.5	188.0432	23.01	-0.40	19112.930	4.0	72292.200	4.0
187.7470	26.01	-0.00	20340.360	5.5	73603.530	5.5	188.0432	25.01	-2.57	34761.810	5.0	87941.080	4.0
187.7523	18.01	-0.45	143371.350	1.5	196633.020	2.5	188.0442	27.02	-0.67	77622.900	4.5	130801.900	4.5
187.7532	25.00	-1.26	0.000	2.5	53261.420	3.5	188.0473	28.02	-1.02	82172.900	3.0	135351.000	2.0
187.7546	27.02	-0.41	73726.600	2.5	126987.600	1.5	188.0583	26.02	-3.90	130256.270	5.0	183431.280	5.0
187.7614	25.02	-0.15	85346.720	6.5	138605.800	6.5	188.0594	26.02	-2.42	66522.950	2.0	119697.640	2.0
187.7618	23.02	-3.63	56922.500	2.5	110181.470	2.5	188.0594	26.02	-0.75	84369.920	2.0	137544.600	2.0
187.7638	24.02	-2.02	99840.700	3.0	153099.100	4.0	188.0599	21.01	-1.01	2540.970	2.0	55715.520	1.0
187.7678	10.01	-2.44	224087.020	1.5	277344.290	2.5	188.0619	26.02	-3.52	69747.400	0.0	122921.370	1.0
187.7724	18.01	-3.64	150474.900	1.5	203730.860	1.5	188.0634	26.02	-2.34	83358.880	2.0	136532.450	2.0
187.7742	15.01	-3.91	76764.960	2.0	130020.400	3.0	188.0665	25.01	-3.71	14593.820	3.0	67766.410	2.0
187.7753	24.00	-1.46	7810.820	1.0	61065.960	1.0	188.0674	26.00	-3.58	7376.762	4.0	60549.180	5.0
187.7799	24.01	-2.20	31351.150	2.5	84604.990	2.5	188.0698	26.02	-4.91	134937.840	2.0	188109.580	3.0
187.7837	28.01	-0.79	51045.460	4.5	104298.230	4.5	188.0705	26.02	-0.25	82382.780	3.0	135554.410	4.0
187.7861	26.02	-3.09	136532.450	2.0	189784.520	2.0	188.0710	23.02	-1.50	99941.290	3.5	153112.600	3.5
187.7891	28.01	-4.30	56424.490	1.5	109675.720	5	188.0730	25.01	-3.33	33278.390	3.0	86449.240	4.0
187.7923	25.02	-3.82	98988.080	5	143148.400	1.5	188.0742	28.01	-2.63	67880.160	2.5	121050.660	2.5
187.7935	26.02	-3.87	135705.570	3.0	188955.560	3.0	188.0746	25.01	-2.89	37847.900	2.0	91018.300	3.0
187.7939	26.02	-2.90	147406.140	5.0	200656.020	6.0	188.0784	25.02	-3.01	121267.320	2.5	174436.590	2.5
187.7990	26.02	-0.18	69695.730	4.0	122944.150	4.0	188.0805	23.01	-2.62	12621.570	5.0	65790.280	4.0
187.8000	25.01	-2.63	53017.160	1.0	106265.300	1.0	188.0805	23.02	-3.93	102961.280	3.5	156130.000	4.5
187.8005	25.02	-1.16	86654.070	4.5	139902.060	5.5	188.0812	28.01	-1.94	68156.570	1.5	121325.090	2.5
187.8075	25.01	-1.27	31022.050	0.0	84268.060	1.0	188.0831	25.02	-1.46	85077.090	4.5	138245.090	5.5
187.8103	28.01	-1.56	53037.930	2.5	106283.160	2.5	188.0842	18.03	-3.05	250906.600	1.5	304074.290	2.5
187.8104	26.00	-3.69	415.932	3.0	53661.130	3.0	188.0855	27.02	-1.06	73214.500	5	126381.800	1.5
187.8106	23.01	-3.20	12545.150	4.0	65790.280	4.0	188.0861	25.01	-4.78	37851.150	3.0	91018.300	3.0
187.8112	25.01	-3.63	36274.290	2.0	89519.250	2.0	188.0862	27.02	-3.42	79425.300	2.5	132592.400	1.5
187.8118	26.02	-4.63	151757.670	2.0	205002.470	3.0	188.0875	25.02	-2.60	85173.880	1.5	138340.620	2.5
187.8153	26.00	-5.66	6928.266	5.0	60172.060	4.0	188.0886	26.02	-4.03	134976.220	3.0	188142.640	2.0
187.8179	23.01	-2.47	8841.970	3.0	62085.020	2.0	188.0919	27.02	-0.65	73726.600	2.5	126892.100	3.5
187.8195	7.02	.66	334568.900	2.5	387811.500	3.5	188.0928	28.01	-3.57	78955.450	1.5	132120.700	5
187.8222	25.02	-3.27	121091.080	1.5	174332.910	1.5	188.0965	26.02	-4.19	147161.360	4.0	200325.560	4.0
187.8233	24.01	-3.47	38315.000	2.5	91556.540	1.5	188.0966	14.00	-5.10	223.157	2.0	53387.334	1.0
187.8258	26.02	-4.69	148915.300	1.0	202156.130	2.0	188.0976	26.01	-0.42	20805.830	4.5	73969.710	5.5
187.8315	15.01	-1.66	77711.000	2.0	130950.200	2.0	188.0991	28.01	-3.51	68131.210	3.5	121294.670	4.5
187.8319	24.01	-7.67	12303.980	3.5	65543.060	3.5	188.1007	10.03	-3.58	648060.000	1.5	701223.000	5
187.8337	10.01	-2.02	224087.020	1.5	277325.600	1.5	188.1007	10.03	-2.84	648060.000	1.5	701223.000	1.5
187.8384	26.01	-1.82	16369.390	3.5	69606.640	3.5	188.1028	28.01	-1.52	67880.160	2.5	121042.570	1.5
187.8442	25.02	-2.27	85077.090	4.5	138312.700	4.5	188.1040	24.01	-3.57	21822.860	2.5	74984.930	1.5
187.8500	26.02	-3.18	147161.360	4.0	200395.330	5.0	188.1050	24.02	-4.16	56992.200	3.0	110154.000	4.0
187.8510	25.01	-2.03	34761.810	5.0	87995.530	5.0	188.1068	24.02	.27	120765.300	5.0	173926.600	6.0
187.8529	25.01	-0.83	30679.240	5.0	83912.380	5.0	188.1090	24.01	-2.89	21824.250	5	74984.930	1.5
187.8534	26.02	-1.03	66464.640	3.0	119697.640	2.0	188.1101	23.02	-1.67	88327.960	3.5	141488.320	4.5
187.8570	9.02	-2.20	391257.420	2.5	444489.400	2.5	188.1107	24.01	-3.64	38396.360	5	91556.540	1.5
187.8650	26.01	-8.21	26055.400	2.5	79285.100	2.5	188.1110	24.01	-3.37	21824.820	1.5	74984.930	1.5
187.8662	23.02	-0.77	49805.290	3.5	103034.650	4.5	188.1121	7.02	-0.64	334568.900	2.5	387728.700	2.5
187.8667	28.01	-2.55	68156.570	1.5	121385.800	1.5	188.1158	28.01	-1.12	14995.570	2.5	68154.310	1.5
187.8678	25.02	-4.13	98988.080	5	143127.000	5	188.1182	26.02	.14	89697.520	3.0	142855.590	4.0
187.8769	24.00	-6.75	7593.160	2.0	60819.500	3.0	188.1233	24.01	-2.98	38269.670	3.5	91426.310	2.5
187.8786	18.01	-2.25	159706.460	5	212932.320	1.5	188.1236	25.02	-3.23	121091.080	1.5	174247.630	5
187.8849	76.00	-1.61	888.132	1.0	54112.203	2.0	188.1239	26.01	-3.02	18886.750	5	72043.210	1.5
187.8890	26.02	-2.82	147161.360	4.0	200384.280	3.0	188.1256	23.02	-2.16	49805.290	3.5	102961.280	3.5
187.8893	9.02	-0.77	390834.600	2.5	444057.440	1.5	188.1276	23.02	-0.19	88559.080	1.5	141714.500	2.5
187.8898	23.01	-1.26	16421.510	4.0	69644.200	3.0	188.1292	25.01	-3.43	36364.300	1.0	89519.250	2.0
187.9014	24.02	-3.27	63172.200	2.0	116391.600	2.0	188.1308	25.01	-4.35	36274.290	2.0	89428.800	3.0
187.9063	28.02	-0.38	103306.100	3.0	156524.100	2.0	188.1366	25.01	-3.19	53597.130	2.0	106750.000	2.0
187.9066	25.01	-2.66	14593.820	3.0	67811.750	3.0	188.1371	25.01					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
188.2241	22.01	-0.84	0.000	1.5	53128.170	1.5	188.4587	26.02	-0.28	69836.830	3.0	122898.840	2.0
188.2257	29.02	-1.13	86133.000	.5	139260.700	.5	188.4602	23.02	.17	91710.430	3.5	144772.020	3.5
188.2286	29.02	-2.45	142426.300	2.5	195553.200	2.5	188.4621	26.02	-2.61	69837.760	2.0	122898.840	2.0
188.2310	12.02	-0.07	531563.000	4.0	584689.200	4.0	188.4627	25.02	-2.68	85173.880	1.5	138234.790	1.5
188.2325	27.02	-1.10	73861.800	1.5	126987.600	1.5	188.4685	26.00	-5.71	704.003	2.0	53763.280	3.0
188.2356	12.02	-1.61	531563.000	4.0	584687.900	3.0	188.4712	27.01	-7.38	27484.300	3.0	80542.800	3.0
188.2357	26.02	.16	89783.590	4.0	142908.480	5.0	188.4714	23.01	-6.60	2604.820	1.0	55663.270	1.0
188.2384	24.01	-7.63	12032.720	1.5	65156.840	2.5	188.4717	8.01	-2.55	212161.940	1.5	265220.300	1.5
188.2385	25.00	-3.31	0.000	2.5	53124.090	3.5	188.4717	8.01	-2.89	212161.940	1.5	265220.300	2.5
188.2478	22.01	-0.36	0.000	1.5	53121.480	.5	188.4739	18.01	-3.29	155708.020	.5	208765.770	.5
188.2479	10.01	-3.90	249695.530	1.5	302816.980	1.5	188.4747	10.01	-3.51	252953.540	1.5	306011.070	.5
188.2479	10.01	-1.37	249839.630	.5	302961.070	1.5	188.4842	26.02	-2.23	69788.190	1.0	122843.030	1.0
188.2511	18.02	-2.08	187171.120	1.0	240291.660	2.0	188.4859	26.01	-2.11	25787.600	1.5	78841.970	.5
188.2535	25.01	-4.29	29951.120	1.0	80370.970	2.0	188.4864	25.01	-2.71	33248.320	4.0	86302.550	3.0
188.2561	28.01	-4.76	68965.650	1.5	122084.790	1.5	188.4879	9.01	-2.59	236169.930	1.0	289223.730	1.0
188.2617	24.00	-7.26	0.000	3.0	53117.540	4.0	188.4905	26.02	-1.54	84369.920	2.0	137423.000	3.0
188.2650	25.01	-1.71	30795.750	4.0	783912.380	5.0	188.4913	9.02	-3.41	413143.860	3.5	466196.700	3.5
188.2722	28.01	-2.94	68965.650	1.5	122080.250	2.5	188.4933	23.02	-3.09	87880.850	2.5	140933.140	3.5
188.2816	25.02	-1.52	85200.760	5.5	138312.700	4.5	188.4968	25.01	-4.28	53698.700	2.0	106750.000	2.0
188.2821	24.02	-3.54	63420.300	3.0	116532.100	3.0	188.4969	9.02	-3.59	466722.420	2.5	519773.700	3.5
188.2838	24.01	-2.80	38315.000	2.5	91426.310	2.5	188.4974	9.01	-2.76	236172.610	2.0	289223.730	1.0
188.2862	26.02	-1.72	69788.190	1.0	122898.840	2.0	188.5008	26.02	-1.53	84159.550	4.0	137209.730	4.0
188.2896	28.01	-3.78	68131.210	3.5	121240.900	3.5	188.5041	9.01	-1.27	202449.350	1.0	255498.600	2.0
188.2913	25.00	-3.97	0.000	2.5	53109.210	2.5	188.5061	25.01	-2.42	29869.110	2.0	82917.780	2.0
188.2919	24.01	-6.99	12148.000	2.5	65257.030	3.5	188.5089	26.01	-3.49	13474.430	2.5	66522.320	2.5
188.2920	25.01	-4.92	40759.500	0.0	93868.500	1.0	188.5115	9.02	-4.56	413143.860	3.5	466196.700	2.5
188.2963	9.02	-2.01	413195.000	2.5	466302.800	3.5	188.5123	26.02	.40	83138.230	5.0	136185.170	5.0
188.2980	26.02	-2.27	69836.830	3.0	122944.150	4.0	188.5130	18.01	-2.43	151087.250	2.5	204133.960	2.5
188.2992	9.02	-3.48	413195.000	2.5	466301.960	2.5	188.5131	25.01	-3.64	29889.310	3.0	82936.010	3.0
188.2996	26.01	-3.20	30764.460	3.5	83871.310	4.5	188.5147	24.01	-8.14	12496.790	4.5	65543.060	3.5
188.3026	26.02	-.51	83358.880	2.0	136464.900	1.0	188.5148	26.01	-2.00	33501.320	3.5	86547.550	2.5
188.3028	26.02	-2.59	66591.680	1.0	119697.640	2.0	188.5163	26.02	-3.83	135096.840	3.0	188142.640	2.0
188.3066	26.01	-6.38	22810.330	3.5	75915.210	2.5	188.5216	25.02	-.28	85200.760	5.5	138245.090	5.5
188.3084	26.00	-2.16	704.003	2.0	53808.370	1.0	188.5259	26.02	-3.26	135088.600	0.0	188131.700	1.0
188.3091	26.01	-4.11	30764.460	3.5	83868.650	2.5	188.5259	7.02	.72	267244.400	2.5	320287.500	3.5
188.3097	24.03	-3.55	104265.000	2.5	157369.000	2.5	188.5265	23.02	-.64	88944.380	2.5	141987.320	3.5
188.3105	27.00	-3.52	0.000	4.5	53103.780	3.5	188.5338	29.02	-2.03	142512.300	1.5	195553.200	2.5
188.3116	24.00	-1.45	8095.210	3.0	61198.680	3.0	188.5345	27.02	-2.42	82363.300	4.5	135404.000	4.5
188.3126	25.00	-4.91	0.000	2.5	53103.190	1.5	188.5418	26.02	.08	83161.480	4.0	136200.130	3.0
188.3145	24.01	-4.57	32836.840	3.5	85939.500	4.5	188.5438	27.01	-4.55	11321.500	2.0	64359.560	3.0
188.3174	28.01	-1.46	51045.460	4.5	104147.290	5.5	188.5444	9.01	-1.05	202460.690	2.0	255498.600	2.0
188.3199	26.02	-.88	87901.870	3.0	141002.990	4.0	188.5470	26.02	-4.88	134976.220	3.0	188013.400	4.0
188.3234	9.02	-4.49	413195.000	2.5	466295.150	1.5	188.5473	27.02	-.79	76518.900	5.5	129556.000	5.5
188.3242	18.02	-1.96	155043.070	2.5	208142.990	3.5	188.5486	24.00	-6.28	7593.160	2.0	60629.870	2.0
188.3282	28.02	-2.79	129953.900	3.0	183052.700	4.0	188.5527	23.01	-3.33	90977.810	4.0	62133.390	3.0
188.3289	27.02	-1.19	72270.500	3.5	125369.100	2.5	188.5527	28.01	-.98	51045.460	4.5	164081.040	4.5
188.3300	26.01	-6.08	23031.300	1.5	76129.580	1.5	188.5574	26.01	-3.92	7955.240	3.5	60989.480	4.5
188.3360	28.01	-4.18	68131.210	3.5	121227.800	2.5	188.5575	22.01	-1.15	93.940	2.5	53128.170	1.5
188.3362	24.01	-3.73	21824.250	.5	74920.800	.5	188.5580	9.02	-0.00	390834.600	2.5	443868.660	2.5
188.3382	24.01	-3.44	21824.820	1.5	74920.800	.5	188.5586	26.02	-2.24	135990.620	4.0	169024.330	5.0
188.3394	26.02	-1.20	69747.400	0.0	122843.030	1.0	188.5675	19.02	-1.83	190916.000	1.5	243947.400	1.5
188.3394	25.02	-2.90	121480.240	3.5	174575.870	3.5	188.5700	9.02	-2.18	390834.600	2.5	443868.660	1.5
188.3404	23.02	-2.44	103034.650	4.5	156130.000	4.5	188.5702	25.01	-1.87	34910.430	4.0	87941.080	4.0
188.3489	24.01	-2.84	33418.110	2.5	86511.080	1.5	188.5705	25.01	-2.47	14781.190	2.0	67811.750	3.0
188.3494	-9.02	-2.14	390834.600	2.5	443927.410	3.5	188.5731	24.01	-2.09	21824.250	.5	74854.080	.5
188.3562	17.02	-4.46	151946.400	.5	205037.300	1.5	188.5739	26.00	-4.17	7728.058	3.0	60757.680	4.0
188.3563	23.02	.25	92052.550	4.5	145143.430	4.5	188.5751	24.01	-1.33	21824.820	1.5	74854.080	.5
188.3569	15.01	-1.83	77711.000	2.0	130801.700	1.0	188.5778	11.02	-.37	418418.100	1.5	471446.600	1.5
188.3573	28.01	-2.31	68709.760	.5	121800.340	1.5	188.5779	25.01	-5.29	29889.310	3.0	82917.780	2.0
188.3581	24.00	-7.54	7593.160	2.0	60683.530	1.0	188.5797	24.00	-3.11	8095.210	3.0	61123.200	4.0
188.3620	24.01	-4.37	33418.110	2.5	86507.380	2.5	188.5825	27.02	-4.05	72341.900	1.5	125369.100	2.5
188.3665	25.01	-2.21	53805.800	4.0	106893.800	5.0	188.5835	18.01	-4.60	150474.900	1.5	203501.800	2.5
188.3715	24.02	-3.09	99840.700	3.0	152927.300	3.0	188.5844	26.00	-7.93	7728.058	3.0	60754.710	4.0
188.3717	26.01	-4.54	7955.240	3.5	61041.780	2.5	188.5851	18.01	-3.67	151087.250	2.5	204113.710	1.5
188.3719	18.02	-1.40	187171.120	1.0	240257.590	1.0	188.5884	14.02	-5.00	204828.060	3.0	257853.600	3.0
188.3751	28.01	-4.68	66579.710	1.5	119665.290	2.5	188.5884	14.02	-1.23	204828.060	3.0	257853.600	4.0
188.3769	25.01	-1.32	34910.430	4.0	87995.500	5.0	188.5884	14.02	-1.04	204828.060	3.0	257853.600	4.0
188.3770	24.01	-2.32	32854.460	4.5	85939.500	4.5	188.5889	26.02	-3.56	70725.010	3.0	123750.390	3.0
188.3773	24.00	-5.97	7593.160	2.0	60678.120	1.0	188.5914	27.02	-1.83	77383.100	3.5	130407.800	2.5
188.3775	28.01	-3.60	66571.340	2.5	119656.250	3.5	188.5933	25.01	-3.15	33278.390	3.0	86302.550	3.0
188.3797	10.01	-1.05	249108.640	3.5	302192.920	4.5	188.5949	26.02	-.08	83161.480	4.0	136185.170	5.0
188.3807	27.01	-2.99	10708.100	3.0	63792.100	4.0	188.5973	28.01	-1.56	67880.160	2.5	120903.200	3.5
188.3821	26.02	-.58	69837.760	2.0	122921.370	1.0	188.5985	24.00	-5.90	7593.160	2.0	60615.840	3.0
188.3885	24.02	-4.66	43304.100	2.0	96385.900	2.0	188.5992	23.01	-4.41	11908.270	2.0	64930.760	1.0
188.3910	9.02	.05	390976.350	1.5	444057.440	1.5	188.6022	26.02	-2.34	70728.750	4.0	123750.390	3.0
188.3946	9.02	-.63	390976.350	1.5	444056.420	.5	188.6037	26.02	-3.48	135990.620	4.0	189011.840	4.0
188.3947	24.01	-6.86	12303.980	3.5	65384.040	4.5	188.6047	28.01	-1.48	13550.390	3.5	66571.340	2.5
188.3959	25.01	-.56	30795.750	4.0	83875.460	4.0	188.6065	14.02	-3.75	204828.060	3.0	257853.600	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
188.6770	26.02	-1.15	89907.850	4.0	142908.480	5.0	188.8670	17.02	-3.04	205938.500	1.5	258885.800	2.5
188.6770	26.02	-1.34	89907.850	5.0	142908.480	5.0	188.8686	23.02	-2.97	103034.650	4.5	155961.500	3.5
188.6807	24.02	-2.76	100099.500	4.0	153099.100	4.0	188.8688	26.02	-2.88	136008.740	3.0	188955.560	3.0
188.6817	28.01	-3.44	77332.470	2.5	130331.780	1.5	188.8701	25.02	-4.08	120974.250	.5	173920.690	1.5
188.6844	25.01	-5.04	29919.220	2.0	82917.780	2.0	188.8734	26.01	.02	20805.830	4.5	73751.340	4.5
188.6851	26.00	-4.31	6928.266	5.0	59926.620	5.0	188.8782	18.01	-.47	143371.350	1.5	196315.510	2.5
188.6864	23.02	-2.90	99941.200	3.5	152939.200	2.5	188.8792	17.02	-2.65	205946.900	2.5	258890.800	1.5
188.6876	26.02	-4.07	149285.000	3.0	202282.650	2.0	188.8844	23.02	-2.58	88327.960	3.5	141270.400	3.5
188.6890	26.02	-4.17	129854.800	6.0	182852.050	7.0	188.8860	18.01	-1.52	142186.270	4.5	195126.270	4.5
188.6901	24.01	-6.44	12032.720	1.5	65029.670	.5	188.8879	25.01	-3.77	29889.310	3.0	82830.750	4.0
188.6903	22.01	-.61	16625.250	1.5	69622.150	2.5	188.8899	26.01	-3.63	8391.920	2.5	61332.820	1.5
188.6927	9.02	-.24	391626.910	3.5	444623.120	3.5	188.8948	26.01	-3.22	13673.210	1.5	66612.740	1.5
188.7052	26.02	-1.08	69834.830	3.0	122829.550	3.0	188.9028	18.01	.21	142186.270	4.5	195123.540	5.5
188.7071	10.01	-3.62	249839.630	.5	302831.800	.5	188.9040	29.01	-2.30	88605.160	1.0	141542.100	2.0
188.7085	26.02	-1.05	69837.760	2.0	122829.550	3.0	188.9050	25.01	-1.35	35004.430	3.0	87941.080	4.0
188.7097	26.01	-4.28	31368.450	.5	84359.900	1.5	188.9063	9.02	.42	390834.600	2.5	434770.900	3.5
188.7109	25.03	-.71	119961.500	3.0	172952.600	3.0	188.9091	27.02	-1.05	77472.300	2.5	130407.800	2.5
188.7124	26.02	-2.82	136793.820	2.0	189784.520	2.0	188.9112	9.02	-1.00	416185.420	2.5	469120.350	1.5
188.7177	26.02	-5.00	147406.140	5.0	200395.330	5.0	188.9141	9.02	.15	416185.420	2.5	469119.520	2.5
188.7196	26.02	-.01	63486.780	4.0	116475.440	3.0	188.9190	24.00	-1.44	7750.780	0.0	60683.530	1.0
188.7220	26.00	-4.60	7376.762	4.0	60364.760	3.0	188.9203	23.02	-1.97	56922.500	2.5	109854.810	3.5
188.7224	25.01	-4.59	29951.120	1.0	82939.000	1.0	188.9320	27.02	-.19	12083.300	4.5	125012.400	4.5
188.7239	26.02	-1.95	136797.050	3.0	189784.520	2.0	188.9335	25.01	-2.18	53597.130	2.0	106525.800	3.0
188.7254	18.01	-3.12	155708.020	.5	208695.070	1.5	188.9383	24.00	-2.87	7750.780	0.0	60678.120	1.0
188.7255	12.02	-1.47	478846.100	2.0	531833.100	3.0	188.9445	25.01	-2.57	53781.700	3.0	106707.300	4.0
188.7286	24.01	-4.60	33521.230	3.5	86507.380	2.5	188.9449	26.02	-3.47	135217.170	1.0	188142.640	2.0
188.7315	25.01	-2.98	14781.190	2.0	67766.510	2.0	188.9452	26.02	-.45	63494.000	3.0	116419.390	2.0
188.7323	9.02	-3.55	466788.600	2.5	519773.700	3.5	188.9460	9.02	-1.38	391626.910	3.5	444552.080	3.5
188.7330	12.02	-1.23	477435.700	2.0	530420.600	1.0	188.9466	24.00	-6.99	7593.160	2.0	60518.160	3.0
188.7368	25.02	-4.95	121480.240	3.5	174464.070	4.5	188.9466	24.00	-6.43	7593.160	2.0	60518.160	3.0
188.7395	24.00	-4.23	8095.210	3.0	61078.280	3.0	188.9468	26.02	-1.55	79860.420	5.0	132785.360	4.0
188.7424	18.01	-1.82	143107.600	2.5	196089.870	2.5	188.9472	26.02	-1.02	63494.560	2.0	116419.390	2.0
188.7453	26.02	-.52	63494.000	3.0	116475.440	3.0	188.9472	25.02	-4.65	179339.590	2.5	232264.420	3.5
188.7454	26.01	-2.51	33501.320	3.5	86482.750	3.5	188.9514	24.01	-3.37	20512.620	2.5	73436.270	2.5
188.7473	26.02	-1.58	63494.560	2.0	116475.440	3.0	188.9532	24.01	-8.88	12496.790	4.5	65419.950	5.5
188.7473	11.02	-.84	410987.900	3.5	463968.800	3.5	188.9636	26.00	-2.08	888.132	1.0	53808.370	1.0
188.7482	26.02	-.08	63486.780	4.0	116467.410	4.0	188.9662	23.02	-4.12	105320.180	1.5	158239.700	2.5
188.7521	18.02	-1.58	187171.120	1.0	240150.660	0.0	188.9665	26.02	-2.95	147406.140	5.0	200325.560	4.0
188.7551	26.01	-9.47	26352.800	4.5	79331.490	3.5	188.9673	24.02	-4.65	56650.500	2.0	109569.700	2.0
188.7574	18.01	-2.89	155351.030	1.5	208329.080	.5	188.9700	9.02	-1.38	390834.600	2.5	443753.060	2.5
188.7598	24.00	-.91	7927.470	2.0	60904.840	3.0	188.9705	17.02	-3.62	201765.100	2.5	254683.400	2.5
188.7599	10.01	-2.41	249839.630	.5	302816.980	1.5	188.9712	10.01	-1.28	251522.120	1.5	304440.270	.5
188.7638	23.01	-6.49	2487.010	2.0	55663.270	1.0	188.9718	24.01	-2.33	20518.330	3.5	73436.270	.5
188.7647	25.02	-4.15	121267.320	2.5	174243.330	3.5	188.9739	26.02	-.25	86847.110	2.0	139764.480	2.0
188.7649	26.02	-3.43	129854.800	6.0	182830.760	6.0	188.9743	24.01	-1.95	38509.070	3.5	91426.310	2.5
188.7652	24.01	-4.07	22939.350	2.5	75915.210	2.5	188.9758	26.01	-3.71	30388.550	4.5	83305.370	3.5
188.7668	26.02	-1.94	98661.880	1.0	151637.300	1.0	188.9768	26.02	-4.58	135096.840	3.0	188013.400	4.0
188.7693	14.00	-2.40	6298.850	2.0	59273.575	1.0	188.9840	26.02	-3.73	135217.170	1.0	188131.700	1.0
188.7710	26.02	.44	114325.350	5.0	167299.600	5.0	188.9864	25.01	-1.21	31514.350	4.0	84428.210	5.0
188.7740	26.02	-4.57	63494.000	3.0	116467.410	4.0	188.9867	26.02	-2.54	146891.040	3.0	199804.810	4.0
188.7755	24.01	-4.94	20512.620	2.5	73485.600	3.5	188.9872	24.01	-8.97	12303.980	3.5	65217.610	4.5
188.7784	26.02	-3.27	70725.010	3.0	123697.180	2.0	188.9880	24.02	-1.38	115668.900	5.0	168582.300	6.0
188.7787	23.02	-.67	88559.080	1.5	141531.170	1.5	188.9938	25.01	-2.51	33278.390	3.0	86190.180	2.0
188.7793	26.01	-4.41	31387.980	2.5	84359.900	1.5	188.9945	25.02	-3.56	91906.100	2.5	144817.680	3.5
188.7800	25.01	-3.26	32787.600	4.0	85759.300	4.0	189.0077	27.01	-1.77	10708.100	3.0	63616.000	2.0
188.7815	24.02	-3.73	63420.300	3.0	116391.600	2.0	189.0152	28.02	-.63	79250.800	4.0	132156.600	4.0
188.7846	24.00	-1.14	7810.820	1.0	60781.250	2.0	189.0158	25.01	-2.43	29869.110	2.0	82774.730	1.0
188.7863	18.01	-4.02	149179.170	3.5	202149.110	2.5	189.0196	25.02	-2.66	90440.500	4.5	143345.070	3.5
188.7872	24.01	-2.94	32603.730	2.5	85573.420	3.5	189.0206	9.03	-4.32	452517.100	3.0	505421.400	3.0
188.7886	25.01	-2.37	14325.860	4.0	67295.160	4.0	189.0231	17.01	-3.94	131754.800	1.0	184658.400	2.0
188.7904	18.01	-2.64	143107.600	2.5	196076.390	1.5	189.0238	26.01	-3.51	25787.600	1.5	78690.980	2.5
188.7906	18.01	-2.27	155043.070	2.5	208011.810	1.5	189.0254	26.01	-2.68	13474.430	2.5	66377.370	3.5
188.7922	25.01	-3.64	53781.700	3.0	106750.000	2.0	189.0275	25.01	-4.00	32856.950	3.0	85759.300	4.0
188.7934	24.01	-5.24	29952.080	.5	82920.030	1.5	189.0291	24.01	-6.76	29952.080	.5	82854.000	.5
188.7954	29.02	-3.55	142819.700	3.5	195787.100	3.5	189.0306	25.01	-3.11	53805.800	4.0	106707.300	4.0
188.7958	24.01	-3.25	20518.330	3.5	73485.600	3.5	189.0313	24.01	-3.22	25033.950	3.5	77935.240	2.5
188.7980	25.01	-7.07	29951.120	1.0	82917.780	2.0	189.0341	12.02	-.74	531563.000	4.0	584463.500	4.0
188.8013	24.01	-2.17	20519.850	4.5	73485.600	3.5	189.0350	24.00	-5.86	7593.160	2.0	60493.520	3.0
188.8061	24.02	-1.95	102099.600	4.0	155064.000	4.0	189.0356	29.02	-2.39	68963.600	2.5	121863.700	1.5
188.8084	26.01	-3.60	22637.190	4.5	75600.930	3.5	189.0381	12.02	.88	531563.000	4.0	584462.400	5.0
188.8095	24.00	-9.44	0.000	3.0	52963.440	4.0	189.0383	24.01	-2.66	20512.620	2.5	73411.940	1.5
188.8107	10.01	-.99	251011.180	2.5	303974.290	1.5	189.0396	26.00	-9.19	0.000	4.0	52898.980	5.0
188.8109	28.01	-3.83	68735.980	2.5	121699.020	1.5	189.0405	18.01	-2.88	155351.030	1.5	208249.740	1.5
188.8137	26.02	-.52	83237.860	3.0	136200.130	3.0	189.0417	25.02	-1.76	85346.720	6.5	138245.090	5.5
188.8172	28.01	-3.42	68154.310	1.5	121115.590	1.5	189.0449	24.02	-1.13	120765.300	5.0	173662.800	6.0
188.8175	24.00	-.71	8095.210	3.0	61056.410	4.0	189.0496	26.02	-1.64	82382.870	3.0	135279.040	2.0
188.8230	26.02	-.08	114339.950	4.0	167299.600	5.0	189.0507	23.01	-3.13	11908.270	2.0	64804.130	2.0
188.8235	28.01	-4.09	68965.650	1.5	121925.160	.5	189.0531	24.01	-1.3				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
189.1002	26.02	-2.49	136797.050	3.0	189679.070	3.0	189.3279	25.01	-0.62	34761.810	5.0	87580.230	4.0
189.1004	26.02	-1.18	114325.350	5.0	167207.300	4.0	189.3290	24.02	-0.19	120747.800	4.0	173565.900	5.0
189.1071	26.02	-0.02	83237.860	3.0	136117.940	2.0	189.3297	26.02	-1.68	83646.980	1.0	136464.900	1.0
189.1092	28.01	-3.44	78955.450	1.5	131834.940	2.5	189.3302	9.02	-1.66	391047.540	5	443865.310	1.5
189.1107	26.02	-4.82	149013.360	4.0	201892.440	5.0	189.3319	11.02	-2.97	440472.000	2.5	493289.300	1.5
189.1113	27.01	-2.28	10708.100	3.0	63587.000	3.0	189.3323	24.02	-2.56	66222.700	5.0	119039.900	5.0
189.1157	25.01	-4.74	32856.950	3.0	85734.620	3.0	189.3338	25.01	-2.90	32856.950	3.0	85673.720	4.0
189.1168	24.00	-4.55	8307.570	4.0	61184.950	5.0	189.3358	23.02	-2.73	88327.960	3.5	141144.170	4.5
189.1183	26.02	-1.52	83358.880	2.0	136235.840	1.0	189.3363	25.01	-2.50	29919.220	2.0	82735.290	2.0
189.1225	25.01	-3.87	32858.840	2.0	85734.620	3.0	189.3379	24.00	-3.88	8307.570	4.0	61123.200	4.0
189.1282	22.02	-0.57	76999.700	1.0	129873.900	2.0	189.3405	27.01	-5.02	27484.300	3.0	80299.200	4.0
189.1334	26.02	-1.85	84671.870	3.0	137544.600	2.0	189.3458	25.01	-2.91	33248.320	4.0	86061.750	3.0
189.1335	24.00	-1.45	7810.820	1.0	60683.530	1.0	189.3472	23.01	-4.29	13490.840	2.0	66303.880	3.0
189.1348	23.02	-2.83	105282.650	2.5	158155.000	1.5	189.3481	15.01	-3.34	76813.220	1.0	129626.000	1.0
189.1362	10.01	-2.78	276276.850	1.5	329148.800	1.5	189.3510	26.01	-6.88	23317.600	2.5	76129.580	1.5
189.1367	10.01	-1.20	276276.850	1.5	329148.670	2.5	189.3526	22.01	-0.88	16515.790	5	69327.320	1.5
189.1371	26.02	-4.76	132079.910	3.0	184951.620	3.0	189.3527	26.02	-3.35	130040.560	7.0	182852.050	7.0
189.1428	25.00	-2.80	0.000	2.5	52870.100	3.5	189.3553	26.02	-3.27	146891.040	3.0	199701.820	3.0
189.1429	18.01	-3.95	150474.900	1.5	203344.980	1.5	189.3594	24.00	-1.27	8095.210	3.0	60904.840	3.0
189.1433	23.02	-2.50	87880.850	2.5	140750.620	2.5	189.3604	28.01	-1.48	23108.280	2.5	75917.630	3.5
189.1438	26.02	-2.64	135239.740	4.0	188109.580	3.0	189.3682	25.01	-0.63	34910.430	4.0	87717.620	3.0
189.1454	25.02	-2.99	91948.300	3.5	144817.680	3.0	189.3716	26.02	-4.98	82410.940	2.0	135217.170	1.0
189.1487	23.02	-1.32	88327.960	3.5	141196.430	2.5	189.3744	15.01	-3.04	76764.960	2.0	129570.400	1.0
189.1489	11.01	-2.15	300391.590	0.0	353260.000	1.0	189.3805	23.01	-6.19	0.000	0.0	52803.750	1.0
189.1500	26.02	-0.04	82410.940	2.0	135279.040	2.0	189.3844	26.02	-2.15	88663.870	4.0	141466.530	3.0
189.1521	23.02	-3.27	105320.180	1.5	158187.700	5	189.3868	26.02	-3.02	147635.950	3.0	200437.940	2.0
189.1527	26.02	-0.38	114339.950	4.0	167207.300	4.0	189.3868	15.01	-3.28	76824.000	0.0	129626.000	1.0
189.1528	24.00	-3.52	7810.820	1.0	60678.120	1.0	189.3875	10.01	-1.58	249445.990	2.5	302247.780	3.5
189.1568	25.01	-2.79	29869.110	2.0	82735.290	2.0	189.3894	27.01	-2.22	10708.100	3.0	63509.370	4.0
189.1597	24.00	-2.31	8095.210	3.0	60960.580	4.0	189.3913	26.02	-0.20	105929.160	3.0	158729.890	3.0
189.1599	25.01	-2.77	14901.180	1.0	67766.510	2.0	189.3914	27.02	-1.39	77383.100	3.5	130183.800	3.5
189.1661	26.02	-3.33	135279.040	2.0	188142.640	2.0	189.3918	24.02	-2.17	120765.300	5.0	173565.900	5.0
189.1701	9.02	-2.73	391626.910	3.5	444489.400	2.5	189.3929	12.03	-0.01	543727.000	2.5	596527.300	2.5
189.1713	23.02	-1.03	88559.080	1.5	141421.220	5	189.3935	28.01	-1.84	53037.930	2.5	105838.060	3.5
189.1727	10.01	-2.39	249445.990	2.5	302307.750	2.5	189.3939	9.02	-4.13	391257.420	2.5	444057.440	1.5
189.1752	15.01	-2.97	76764.960	2.0	129626.000	1.0	189.3984	26.02	-0.44	79860.420	5.0	132659.170	4.0
189.1760	25.02	-3.19	120974.250	5	173835.070	5	189.4022	26.01	-1.14	20805.830	4.5	73603.530	5.5
189.1808	27.01	-4.79	28111.900	2.0	80971.400	1.0	189.4070	9.02	-2.25	390834.600	2.5	443630.960	3.5
189.1813	26.00	-3.63	415.932	3.0	53275.270	2.0	189.4108	26.00	-3.70	7376.762	4.0	60172.060	4.0
189.1845	25.02	-0.36	85077.090	4.5	137935.530	4.5	189.4116	25.02	-4.49	179683.610	4.5	232478.680	4.5
189.1902	26.02	-0.92	82382.870	3.0	135239.740	4.0	189.4121	26.01	-5.33	21812.040	1.5	74606.970	2.5
189.1929	12.02	-0.74	531833.100	3.0	584689.200	4.0	189.4126	20.02	-2.36	225826.220	2.0	278621.010	2.0
189.1931	26.02	-1.54	84671.870	3.0	137527.920	4.0	189.4179	25.01	-2.87	29919.220	2.0	82712.550	3.0
189.1950	25.01	-2.79	29919.220	2.0	82774.730	1.0	189.4196	25.01	-2.27	31514.350	4.0	84307.200	4.0
189.1955	26.02	-0.33	114351.920	3.0	167207.300	4.0	189.4244	26.02	-0.30	69836.830	3.0	122628.340	2.0
189.1965	29.02	-2.30	86133.000	5	138988.100	1.5	189.4245	26.02	-1.89	87901.870	3.0	140693.360	3.0
189.1976	12.02	-0.12	531833.100	3.0	584687.900	3.0	189.4273	9.02	-3.08	390834.600	2.5	443625.310	2.5
189.2002	25.01	-0.67	35004.430	3.0	87858.510	2.0	189.4277	26.02	-0.89	69837.760	2.0	122626.340	2.0
189.2012	24.00	-1.29	7927.470	2.0	60781.250	2.0	189.4277	26.01	-3.76	22810.330	3.5	75600.930	3.5
189.2012	24.00	-3.07	8307.570	4.0	61161.350	5.0	189.4291	26.02	-3.49	130040.560	7.0	182830.760	6.0
189.2015	27.02	-0.39	86283.800	4.5	139137.500	5.5	189.4469	25.01	-2.47	37811.570	1.0	90596.800	2.0
189.2030	14.02	-4.32	0.000	0.0	52853.280	1.0	189.4507	25.01	-3.34	29951.120	1.0	82735.290	2.0
189.2044	15.01	-3.88	76813.220	1.0	129666.100	2.0	189.4508	26.02	-0.68	82494.880	1.0	135279.040	2.0
189.2045	24.01	-7.86	12303.980	3.5	65156.840	2.5	189.4521	10.01	-2.76	252798.480	5	305582.270	5
189.2046	22.02	-0.62	77166.650	2.0	130019.500	3.0	189.4524	24.02	-3.27	56650.500	2.0	109434.200	2.0
189.2052	26.02	-3.97	135279.040	2.0	188131.700	1.0	189.4536	25.01	-1.91	33278.390	3.0	86061.750	3.0
189.2062	26.02	-0.35	83138.230	5.0	135990.620	4.0	189.4578	20.02	-1.31	278621.010	1.0	331403.200	1.0
189.2075	26.01	-3.40	7955.240	3.5	60807.280	4.5	189.4593	24.00	-0.51	7593.160	2.0	60374.940	2.0
189.2083	27.02	-1.64	79425.300	2.5	132277.100	3.5	189.4601	25.02	-3.82	121267.320	2.5	174048.890	2.5
189.2086	25.01	-4.93	36274.290	2.0	89126.000	3.0	189.4639	25.01	-4.80	53698.700	2.0	106479.200	1.0
189.2101	28.01	-2.05	68709.760	5	121561.060	5	189.4775	18.02	-3.05	231341.800	2.0	284118.510	1.0
189.2120	24.01	-5.60	19798.010	2.5	72648.790	3.5	189.4775	9.02	-1.56	390976.350	1.5	443753.060	2.5
189.2123	28.02	-3.64	82172.900	3.0	135023.600	3.0	189.4780	25.01	-2.59	53597.130	2.0	106373.700	2.0
189.2139	26.02	-0.38	63466.390	5.0	116316.630	5.0	189.4790	24.01	-6.46	12148.000	2.5	64924.300	3.5
189.2179	26.02	-1.56	87901.870	3.0	140750.980	2.0	189.4821	24.00	-4.32	8095.210	3.0	60870.630	4.0
189.2179	26.01	-2.52	13673.210	1.5	66522.320	2.5	189.4885	26.02	-2.47	135239.740	4.0	188013.400	4.0
189.2234	17.02	-3.50	201765.100	2.5	254612.700	1.5	189.4885	18.01	-2.37	155708.020	5	208481.660	5
189.2246	26.02	-0.74	83161.480	4.0	136008.740	3.0	189.4916	17.02	-3.49	202367.600	3.5	255140.400	2.5
189.2283	9.02	-2.22	413195.000	2.5	466041.220	3.5	189.4985	26.02	-1.11	83237.860	3.0	136006.740	3.0
189.2292	25.01	-2.97	29889.310	3.0	82735.290	2.0	189.4991	28.02	-3.16	61339.200	4.0	114109.900	3.0
189.2314	28.01	-4.63	56424.490	1.5	109269.830	1.5	189.4991	24.00	-5.57	8307.570	4.0	61076.280	3.0
189.2323	28.01	-2.73	73893.730	1.5	126738.820	1.5	189.5012	23.02	-0.38	88944.380	2.5	141714.500	2.5
189.2331	26.02	-0.39	88694.670	5.0	141539.550	6.0	189.5029	26.02	-4.78	147614.650	2.0	200384.280	3.0
189.2337	29.01	-3.23	72724.000	2.0	125568.700	1.0	189.5059	18.01	-2.91	138243.550	1.5	191012.350	1.5
189.2348	24.02	-3.14	43304.100	2.0	96148.500	1.0	189.5060	26.00	-7.79	0.000	4.0	52768.780	4.0
189.2366	11.02	-3.84	411548.200	2.5	464392.100	2.5	189.5071	10.01	-2.01	252798.480	5	305582.270	5
189.2382	25.01	-2.58	29869.110	2.0	82712.550	3.0	189.5084	28.01	-1.20	53601.190	1.5	106369.300	1.5
189.2392	9.02	-3.82	413195.000	2.5	466038.170	2.5	189.509						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
189.5891	25.01	-3.24	37851.150	3.0	90596.800	2.0	189.8462	25.01	-2.64	33278.390	3.0	85952.600	3.0
189.5908	26.02	-2.25	114339.950	4.0	167085.120	3.0	189.8535	26.01	-1.22	20516.980	2.5	73189.160	1.5
189.5918	25.01	-4.53	55696.500	4.0	108441.400	4.0	189.8567	24.01	-3.95	38315.000	2.5	90986.310	3.5
189.5947	25.01	-3.14	53781.700	3.0	106525.800	3.0	189.8594	24.01	-5.73	25043.100	1.5	77713.660	1.5
189.5951	25.02	-3.22	121091.080	1.5	173835.070	.5	189.8614	9.02	.66	391257.420	2.5	443927.410	3.5
189.6004	12.02	-1.73	477435.700	2.0	530178.200	2.0	189.8621	25.01	-1.29	34910.430	4.0	87580.230	4.0
189.6024	24.01	-3.72	25035.640	.5	77777.580	.5	189.8639	28.01	-3.81	1506.940	1.5	54176.260	.5
189.6026	27.02	-1.01	72270.500	3.5	125012.400	4.5	189.8680	25.01	-3.57	53597.130	2.0	106265.300	1.0
189.6072	28.02	-3.25	130312.100	4.0	183052.700	4.0	189.8736	24.01	-5.57	25047.040	2.5	77713.660	1.5
189.6137	24.02	-2.41	115843.500	6.0	168582.300	6.0	189.8831	23.01	-5.33	36.050	1.0	52700.030	2.0
189.6150	28.01	-2.47	0.000	2.5	52738.450	2.5	189.8869	26.02	-1.18	73727.640	2.0	126390.570	1.0
189.6166	12.02	-1.32	531833.100	3.0	584571.100	2.0	189.8880	23.01	-6.00	2687.010	2.0	55349.630	3.0
189.6217	24.01	-2.72	32836.840	3.5	85573.420	3.5	189.8918	26.01	-6.40	22939.350	2.5	75600.930	3.5
189.6248	28.01	-3.43	66579.710	1.5	119315.440	2.5	189.8924	24.01	-1.86	21822.860	2.5	74464.250	2.5
189.6282	25.02	-1.34	85200.760	5.5	137935.530	4.5	189.8924	27.02	-3.04	72341.900	1.5	125003.300	2.5
189.6293	24.01	-4.96	25043.100	1.5	77777.580	.5	189.8928	17.02	-1.93	151879.900	1.5	204541.200	2.5
189.6303	12.02	-1.00	425640.300	2.0	478374.500	1.0	189.8946	18.01	-1.58	155351.030	1.5	208011.810	1.5
189.6328	29.02	-3.78	142819.700	3.5	195553.200	2.5	189.8948	23.01	-4.39	106.630	2.0	52767.360	3.0
189.6332	28.01	-3.75	68965.650	1.5	121699.020	1.5	189.8971	25.01	-4.69	32787.600	4.0	85447.700	5.0
189.6335	26.01	-7.83	16369.390	3.5	69102.690	2.5	189.8995	24.01	-1.42	21824.820	1.5	74484.250	2.5
189.6335	14.00	-4.41	6298.850	2.0	59032.140	2.0	189.9013	23.02	-1.55	109854.870	3.5	162513.800	4.5
189.6339	26.02	.22	114351.920	3.0	167085.120	3.0	189.9018	27.01	-1.64	10708.100	3.0	63366.900	2.0
189.6353	27.02	-1.12	72270.500	3.5	125003.300	2.5	189.9101	25.02	-1.38	90440.500	4.5	143097.000	3.5
189.6382	24.03	-1.50	104637.000	3.5	157369.000	2.5	189.9134	28.01	-3.50	77332.470	2.5	129988.050	2.5
189.6385	24.02	-3.14	57422.100	4.0	110154.000	4.0	189.9148	27.02	-3.58	73726.600	2.5	126381.800	1.5
189.6425	12.02	-1.41	531833.100	3.0	584563.900	3.0	189.9198	27.02	-1.83	78927.800	3.5	131581.600	3.5
189.6441	10.01	-2.57	249695.530	1.5	302425.870	1.5	189.9214	25.02	-2.91	121267.320	2.5	173920.690	1.5
189.6482	24.02	-3.03	56992.200	3.0	109721.400	3.0	189.9227	24.00	-2.61	8307.570	4.0	60960.560	4.0
189.6659	24.00	-2.52	8095.210	3.0	60819.500	3.0	189.9250	26.01	-2.75	8680.470	1.5	61332.820	1.5
189.6667	25.02	-2.62	91948.300	3.5	144672.380	2.5	189.9287	18.01	-1.97	155043.070	2.5	207694.420	3.5
189.6704	26.02	-3.81	147161.360	4.0	199884.390	5.0	189.9303	26.02	-1.57	69695.730	4.0	122346.610	3.0
189.6731	26.02	-1.08	82494.880	1.0	135217.170	1.0	189.9332	26.02	.19	114351.920	3.0	167002.000	2.0
189.6766	23.02	-2.93	102961.280	3.5	155682.600	3.5	189.9340	26.02	-2.64	83358.880	2.0	136008.740	3.0
189.6777	25.02	-3.31	90440.500	4.5	143161.500	4.5	189.9340	26.01	-6.36	8391.920	2.5	61041.780	2.5
189.6784	24.01	-8.84	12496.790	4.5	65217.610	4.5	189.9373	9.02	-3.20	390976.350	1.5	443625.310	2.5
189.6813	25.01	-4.51	53805.800	4.0	106525.800	3.0	189.9446	22.01	-5.46	907.960	1.5	53554.900	2.5
189.6814	26.07	.47	79844.740	6.0	132564.710	5.0	189.9498	25.01	-1.33	31661.720	3.0	84307.200	4.0
189.6832	23.02	-1.25	92052.550	4.5	144772.020	3.5	189.9512	25.03	-1.34	119445.500	2.0	172090.600	1.0
189.6851	24.01	-3.51	32854.460	4.5	85573.420	3.5	189.9566	18.01	-2.95	151087.250	2.5	203730.860	1.5
189.6860	17.02	-2.45	202367.600	3.5	255086.300	3.5	189.9572	26.02	-2.62	147161.360	4.0	199804.810	4.0
189.6867	18.01	-2.45	143371.350	1.5	196089.870	2.5	189.9624	24.02	-2.80	101443.700	2.0	154085.700	3.0
189.6873	24.01	-4.42	32855.090	2.5	85573.420	3.5	189.9685	27.01	-7.27	27902.500	4.0	80542.800	3.0
189.6880	26.01	-5.61	21251.550	6.5	73969.710	5.5	189.9689	11.02	-2.44	410987.900	3.5	463628.100	2.5
189.6934	24.01	-3.39	38269.670	3.5	90986.310	3.5	189.9716	29.01	-3.19	88605.160	1.0	141244.600	1.0
189.6947	18.01	-3.05	139258.250	.5	191974.530	1.5	189.9786	26.02	-1.01	84159.550	4.0	136797.050	3.0
189.6956	25.01	-3.31	29889.310	3.0	82605.290	4.0	189.9792	23.02	-1.48	88559.080	1.5	141196.430	2.5
189.6979	26.01	-6.01	21251.550	6.5	73966.940	6.5	189.9797	27.02	-1.37	86283.800	4.5	138921.000	4.5
189.7030	26.07	-1.09	82382.870	3.0	135096.840	3.0	189.9805	10.01	-1.49	276511.820	.5	329146.800	1.5
189.7058	25.01	-1.37	35004.430	3.0	87717.620	3.0	189.9815	26.00	-4.19	7728.058	3.0	60364.760	3.0
189.7062	25.02	-2.13	91906.100	2.5	144619.190	1.5	189.9826	25.03	-2.45	119445.500	2.0	172081.900	3.0
189.7108	24.02	-3.93	101745.300	3.0	154457.100	4.0	189.9840	27.01	-3.75	10708.100	3.0	63344.100	3.0
189.7119	27.02	-1.85	77472.300	2.5	130183.600	3.5	189.9841	10.01	-3.32	249839.630	.5	302475.610	.5
189.7147	25.01	-2.37	33278.390	3.0	85989.120	2.0	189.9847	18.01	-2.31	142186.270	4.5	194822.100	3.5
189.7197	26.01	-5.04	25981.650	3.5	78690.980	2.5	189.9856	26.01	-4.05	26055.400	2.5	78690.980	2.5
189.7204	23.01	-1.37	13594.730	2.0	66303.880	3.0	189.9929	26.02	.45	105929.160	3.0	158562.700	4.0
189.7224	12.02	-1.16	496012.100	0.0	548720.700	1.0	190.0026	28.01	-1.34	53037.930	2.5	105668.780	2.5
189.7236	27.01	-1.81	11651.310	2.0	64359.560	3.0	190.0043	12.02	.71	531833.100	3.0	584463.500	4.0
189.7250	26.01	-3.28	13904.870	.5	66612.740	1.5	190.0103	10.01	-4.03	252953.540	1.5	305584.270	.5
189.7265	25.02	-1.49	85200.760	5.5	137908.200	5.5	190.0183	26.01	-1.55	20516.980	2.5	73143.480	3.5
189.7272	22.02	.09	77166.450	2.0	129873.900	2.0	190.0190	10.01	-3.60	224699.270	.5	277325.600	1.5
189.7352	18.01	-1.64	143371.350	1.5	196076.990	1.5	190.0252	24.01	-7.02	20024.180	3.5	72648.790	3.5
189.7379	26.02	-1.68	79860.420	5.0	132564.710	5.0	190.0340	29.01	-1.98	88362.030	2.0	140984.200	1.0
189.7379	25.01	-2.79	33248.320	4.0	85952.600	3.0	190.0380	18.01	-3.61	155708.020	.5	208329.080	.5
189.7414	18.01	-1.21	155043.070	2.5	207746.380	2.5	190.0407	24.01	-5.13	12303.980	3.5	64924.300	3.5
189.7432	13.01	-1.32	95546.800	3.0	148249.600	4.0	190.0505	26.01	-9.88	1872.600	4.5	54490.200	3.5
189.7447	24.00	-3.17	7927.470	2.0	60629.870	2.0	190.0506	25.02	-2.24	84981.630	3.5	137599.200	3.5
189.7450	13.01	-2.75	95546.800	3.0	148249.100	3.0	190.0506	26.02	-2.65	134265.420	2.0	186882.980	3.0
189.7459	22.01	-1.51	16625.250	1.5	69327.320	1.5	190.0545	26.02	-1.72	88923.070	6.0	141539.550	6.0
189.7465	13.01	-3.93	95546.800	3.0	148248.700	2.0	190.0565	23.01	-4.06	13542.680	3.0	66158.600	4.0
189.7478	26.01	-2.91	8391.920	2.5	61093.440	2.5	190.0585	26.02	-1.96	89697.520	3.0	142312.900	3.0
189.7485	25.01	-1.33	14593.820	3.0	67295.160	4.0	190.0638	18.01	-1.67	142186.270	4.5	194800.180	4.5
189.7485	8.02	-1.45	376067.660	2.0	428769.000	3.0	190.0656	10.01	-3.32	252953.540	1.5	305566.940	1.5
189.7490	13.01	-1.85	95547.900	2.0	148249.100	3.0	190.0661	24.01	-5.28	21822.860	2.5	74436.140	2.5
189.7504	13.01	-2.38	95547.900	2.0	148249.700	2.0	190.0668	26.00	-0.47	0.000	4.0	52813.072	5.0
189.7515	24.00	-3.40	8307.570	4.0	61008.070	5.0	190.0675	22.01	-4.14	983.800	2.5	53596.700	1.5
189.7537	13.01	-1.65	95548.800	1.0	148248.700	2.0	190.0699	10.01	-2.06	249695.530	1.5	302307.750	2.5
189.7546	26.01	-2.26	25787.600	1.5	78487.250	1.5	190.0710	25.01	-3.14	33147.390	5.0	85759.300	4.0
189.7562	27.02	-2.00	73540.200	3.5	126239.400	4.5	190.0730	9.02	.				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
190.1543	26.02	-0.43	83646.980	1.0	136235.840	1.0	190.4329	24.00	-3.60	8307.570	4.0	60819.500	3.0
190.1560	12.02	-1.25	478374.500	1.0	530962.900	0.0	190.4360	26.02	-0.54	105906.230	2.0	158417.310	2.0
190.1578	12.02	-0.77	426868.100	1.0	479456.000	1.0	190.4364	25.01	-2.18	33248.320	4.0	85759.360	4.0
190.1585	17.02	-0.29	151953.500	3.5	204541.200	2.5	190.4407	26.02	-0.36	69836.830	3.0	122346.610	3.0
190.1591	14.02	-0.87	204828.060	3.0	257415.600	2.0	190.4441	26.02	-1.11	69837.760	4.0	122346.610	3.0
190.1614	24.02	-3.13	56650.500	2.0	109237.400	1.0	190.4503	25.01	-1.62	31760.930	2.0	84268.060	1.0
190.1618	23.02	-0.55	88944.380	2.5	141531.170	1.5	190.4507	10.01	-2.42	251011.180	2.5	303518.210	1.5
190.1638	10.01	-2.57	249839.630	.5	302425.870	1.5	190.4522	29.01	-0.24	72724.000	2.0	125230.600	3.0
190.1654	27.02	-1.70	77121.100	4.5	129706.400	3.5	190.4549	23.01	-7.43	13490.840	2.0	65996.700	3.0
190.1654	13.01	-2.63	95546.800	3.0	148132.600	3.0	190.4583	28.01	-2.89	68735.980	2.5	121240.900	3.5
190.1694	13.01	-1.72	95547.900	2.0	148132.600	3.0	190.4590	26.02	-3.78	149525.630	2.0	202030.380	3.0
190.1721	25.02	-1.92	86051.500	2.5	138635.460	2.5	190.4610	26.01	-4.19	31364.470	1.5	83868.650	2.5
190.1750	25.02	-1.35	85077.090	4.5	137660.240	3.5	190.4665	14.00	-1.25	6298.850	2.0	58801.524	1.0
190.1795	28.01	-0.38	68735.980	2.5	121317.890	3.5	190.4689	10.01	-2.53	249445.990	2.5	301948.000	1.5
190.1806	25.01	-2.57	38720.200	6.0	91301.800	5.0	190.4733	9.03	-2.96	417143.400	2.0	469644.200	2.0
190.1937	18.02	-1.18	231341.800	2.0	283919.780	3.0	190.4749	26.00	-3.35	415.932	3.0	52916.278	2.0
190.1954	24.02	-3.42	56992.200	3.0	109569.700	2.0	190.4752	25.01	-0.75	29919.220	2.0	82419.480	3.0
190.2016	25.01	-2.81	35004.430	3.0	87580.230	4.0	190.4766	26.02	-3.35	147406.140	5.0	199906.030	6.0
190.2028	26.01	-2.11	13673.210	1.5	66248.670	.5	190.4773	15.03	-0.24	256602.700	1.0	309102.400	1.0
190.2063	26.02	-2.70	130256.270	5.0	182830.760	6.0	190.4785	26.01	-1.02	20516.980	2.5	73016.330	3.5
190.2081	25.02	-2.54	91948.300	3.5	144522.300	4.5	190.4816	28.01	-3.17	53634.620	1.5	106133.140	1.5
190.2087	26.02	-0.23	83161.460	4.0	135735.310	5.0	190.4826	25.01	-5.19	29889.210	3.0	82387.530	3.0
190.2180	26.00	-3.42	704.003	2.0	53275.270	2.0	190.4834	9.02	-0.78	416185.420	2.5	468683.430	2.5
190.2186	22.01	-5.37	983.800	2.5	53554.900	2.5	190.4853	23.01	-7.93	106.630	2.0	52604.110	1.0
190.2211	24.02	-2.50	66027.800	4.0	118598.200	3.0	190.4853	9.02	-0.54	416185.420	2.5	468682.910	3.5
190.2232	23.02	-0.19	89417.500	3.5	141987.320	3.5	190.4907	24.01	-1.42	21822.860	2.5	74318.860	2.5
190.2260	26.02	-2.89	144332.210	4.0	196901.270	5.0	190.4920	9.02	-2.27	391257.420	2.5	443753.060	2.5
190.2274	25.02	-2.85	121480.240	3.5	174048.890	2.5	190.4922	23.01	-6.00	2808.760	3.0	55304.340	4.0
190.2296	23.01	-5.84	36.050	1.0	52604.110	1.0	190.4978	24.01	-1.69	21824.820	1.5	74318.860	2.5
190.2372	24.00	-1.13	7927.470	2.0	60493.420	3.0	190.4982	7.01	-2.80	170607.890	1.0	223101.820	1.0
190.2395	25.01	-3.81	36274.290	2.0	88839.600	1.0	190.5052	11.02	-4.52	414281.000	2.5	466773.000	1.5
190.2396	26.02	-0.06	82410.940	2.0	134976.220	3.0	190.5059	28.01	-3.46	68735.980	2.5	121227.800	2.5
190.2410	26.01	-3.60	8391.920	2.5	60956.820	3.5	190.5081	18.02	-3.45	231627.300	1.0	284118.510	1.0
190.2438	24.00	-1.18	7810.820	1.0	60374.940	2.0	190.5083	23.01	-5.12	208.890	3.0	52700.030	2.0
190.2467	23.02	-0.30	88944.380	2.5	141507.700	3.5	190.5091	24.00	-5.98	7593.160	2.0	60084.090	1.0
190.2477	24.00	-7.93	8307.570	4.0	60870.630	4.0	190.5107	27.02	-1.82	83799.600	2.5	136290.100	3.5
190.2505	23.01	-0.68	13741.610	3.0	66303.880	3.0	190.5146	18.01	-2.88	138243.550	1.5	190732.970	.5
190.2534	25.02	-1.33	85346.720	6.5	137908.200	5.5	190.5172	25.01	-3.23	33147.390	5.0	85636.100	6.0
190.2555	27.02	-1.40	77622.900	4.5	130183.500	3.5	190.5192	26.02	-0.55	105929.160	3.0	158417.310	2.0
190.2591	28.02	-0.34	78303.100	2.0	130863.000	1.0	190.5259	25.01	-3.26	33248.320	4.0	85734.620	3.0
190.2643	23.01	-3.90	208.890	3.0	52767.360	3.0	190.5268	26.01	-2.51	8846.760	.5	61332.820	1.5
190.2649	15.03	-0.71	256544.100	0.0	309102.400	1.0	190.5334	26.02	-2.65	97041.380	3.0	149525.630	2.0
190.2677	27.00	-5.06	816.000	3.5	53373.530	3.5	190.5368	27.02	-0.23	82920.700	3.5	135404.000	4.5
190.2762	26.02	-2.95	135554.410	4.0	188109.580	3.0	190.5455	25.01	-4.03	33278.390	3.0	85759.360	4.0
190.2770	26.02	-2.18	12382.870	3.0	134937.840	2.0	190.5479	15.00	-0.40	18722.650	.5	71202.900	1.5
190.2791	26.02	-2.70	130256.270	5.0	182810.660	5.0	190.5480	24.00	-2.03	7810.820	1.0	60291.640	1.0
190.2905	26.02	-0.18	87901.870	3.0	140453.100	3.0	190.5551	26.02	-3.41	147406.140	5.0	199884.390	5.0
190.2936	25.01	-0.42	29869.110	2.0	82419.480	3.0	190.5588	24.01	-3.90	38509.070	3.5	90866.310	3.5
190.2955	26.00	-2.89	7376.762	4.0	59926.620	5.0	190.5658	25.01	-4.39	36364.300	1.0	88839.600	1.0
190.2964	23.01	-3.41	13609.000	4.0	66158.600	4.0	190.5680	27.02	-0.48	78434.300	.5	130904.000	1.5
190.3021	26.01	-1.77	31811.870	2.5	84359.900	1.5	190.5729	28.01	-3.12	56075.260	2.5	108546.610	1.5
190.3164	26.02	-2.07	83161.480	4.0	135705.570	3.0	190.5797	22.01	-1.20	0.000	1.5	52471.480	2.5
190.3178	27.01	-1.95	11321.500	2.0	63865.200	1.0	190.5807	27.02	-1.01	77121.100	4.5	129952.300	4.5
190.3249	18.01	-2.49	155708.020	.5	208249.740	1.5	190.5816	26.02	-0.58	83646.980	1.0	136117.940	2.0
190.3254	28.02	-1.23	79250.800	4.0	131792.400	4.0	190.5875	26.02	-2.74	137209.730	4.0	189679.070	3.0
190.3259	26.02	-0.58	73849.100	1.0	126390.570	1.0	190.5889	18.02	-2.49	231627.300	1.0	284096.260	2.0
190.3265	24.02	-2.49	56992.200	3.0	109533.500	4.0	190.5901	18.02	-1.24	187823.050	2.0	240291.660	2.0
190.3279	26.01	-1.42	30764.460	3.5	83305.370	3.5	190.5912	25.01	-5.67	29919.220	2.0	82387.530	3.0
190.3280	23.01	-5.37	2808.760	3.0	55349.630	3.0	190.5934	26.02	-1.14	83237.860	3.0	135705.570	3.0
190.3295	26.02	-3.52	147161.360	4.0	199701.820	3.0	190.5935	22.01	-3.80	1087.210	3.5	53554.900	2.5
190.3302	24.00	-1.43	7750.780	0.0	60291.040	1.0	190.6094	15.01	-2.89	77711.000	2.0	130174.300	2.0
190.3304	24.01	-3.49	38563.150	4.5	91103.360	4.5	190.6174	28.01	-2.68	53037.930	2.5	105499.050	3.5
190.3336	26.01	-4.82	21430.390	5.5	73969.710	5.5	190.6214	27.00	-7.03	816.000	3.5	53276.020	4.5
190.3372	8.02	-0.59	376067.660	2.0	428606.000	2.0	190.6251	26.02	-4.39	135554.410	4.0	188013.400	4.0
190.3385	26.01	-2.27	20516.980	2.5	73054.970	2.5	190.6251	26.02	-0.59	0.000	1.5	52456.980	1.5
190.3389	26.02	-2.78	84671.870	3.0	137209.730	4.0	190.6265	27.02	-0.56	79425.300	2.5	131883.900	2.5
190.3416	22.01	-1.08	93.940	2.5	52631.070	3.5	190.6284	23.02	-3.90	49327.740	2.5	101785.810	1.5
190.3437	26.01	-4.23	21430.390	5.5	73966.940	6.5	190.6322	26.01	-3.68	13474.430	2.5	65931.460	3.5
190.3471	28.02	-0.65	103306.100	3.0	155841.700	4.0	190.6333	23.01	-3.63	16340.970	3.0	68797.700	2.0
190.3505	24.00	-2.69	8095.210	3.0	60629.870	2.0	190.6351	25.01	-1.09	33278.390	3.0	85734.620	3.0
190.3573	18.01	-3.10	150474.900	1.5	203007.690	1.5	190.6393	25.02	-1.39	84981.630	3.5	137436.700	4.5
190.3574	24.00	-1.25	8095.210	3.0	60627.560	4.0	190.6396	23.01	-7.30	2667.010	2.0	55142.010	3.0
190.3587	24.02	-3.12	65890.900	3.0	118423.300	2.0	190.6398	15.00	-1.50	18747.950	1.5	71202.900	1.5
190.3594	19.02	-1.69	190916.000	1.5	243448.200	1.5	190.6410	26.02	-1.16	73935.960	0.0	126390.570	1.0
190.3632	23.01	-7.42	2968.220	4.0	55499.380	5.0	190.6432	23.01	-4.33	13542.680	3.0	65996.700	3.0
190.3641	28.02	-3.31	81686.900	6.0	134217.800	5.0	190.6460	26.02	-0.07	84159.550	4.0	136612.780	4.0
190.3668	25.01	-4.43	29889.310	3.0	82419.480	3.0	190.6476	8.02	-3.49	370524.200	2.0	422977.000	3.0
190.3687	23.02	-0.04	89457.670	2.5	141987.320	3.5	190.6480	24.02	-2.06				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
190.7149	15.04	-1.26	414458.700	2.5	466893.000	1.5	191.0143	27.02	-1.24	78927.800	3.5	131279.900	3.5
190.7238	26.01	-4.28	26055.400	2.5	78487.250	1.5	191.0147	26.01	-4.36	21251.550	6.5	73603.530	5.5
190.7272	27.01	-5.06	28111.900	2.0	80542.800	3.0	191.0176	27.02	-2.61	83938.900	3.5	136290.100	3.5
190.7280	24.00	-1.443	7810.820	1.0	60241.500	0.0	191.0178	26.02	-4.48	105906.230	2.0	158257.370	1.0
190.7312	25.03	-2.06	137853.000	4.0	190282.800	3.0	191.0180	15.03	-4.01	256751.300	2.0	309102.400	1.0
190.7370	11.02	-3.76	411963.900	1.5	464392.100	2.5	191.0212	6.01	-1.33	131724.370	.5	184074.590	1.5
190.7372	23.01	-3.45	339.210	4.0	52767.360	3.0	191.0238	25.03	.16	120603.100	4.0	172952.600	3.0
190.7381	18.03	-1.92	251972.000	2.5	304399.900	3.5	191.0239	26.02	-3.10	89697.520	3.0	142047.000	4.0
190.7383	20.02	-.83	278621.010	1.0	331048.860	0.0	191.0340	26.02	-1.30	83358.880	2.0	135705.570	3.0
190.7396	24.01	-4.97	12496.790	4.5	64924.300	3.5	191.0363	26.02	-2.31	147354.750	5.0	199700.830	4.0
190.7409	26.02	-3.52	84369.920	2.0	136797.050	3.0	191.0379	15.01	-2.47	76764.960	2.0	129110.600	1.0
190.7472	25.01	-.89	33248.320	4.0	85673.720	4.0	191.0405	26.02	-.38	66522.950	2.0	118867.870	1.0
190.7494	10.01	-1.37	224087.020	1.5	276511.820	.5	191.0446	26.01	-3.25	13904.870	.5	66248.670	.5
190.7527	26.02	-.56	84369.920	2.0	136793.820	2.0	191.0457	27.01	-2.10	11321.500	2.0	63665.000	1.0
190.7554	24.01	-2.34	38563.150	4.5	90986.310	3.5	191.0464	27.01	-2.83	13261.100	2.0	65604.400	3.0
190.7556	26.02	-1.31	136532.450	2.0	188955.560	3.0	191.0473	23.02	-4.85	42371.200	1.5	94714.250	.5
190.7561	24.00	-4.45	8095.210	3.0	60518.160	3.0	191.0483	26.02	-4.79	136612.780	4.0	188955.560	3.0
190.7561	24.00	-3.29	8095.210	3.0	60518.160	3.0	191.0489	23.01	-4.26	13542.680	3.0	65885.300	2.0
190.7565	23.02	-3.98	88327.960	3.5	140750.820	2.5	191.0497	25.01	-3.94	27570.950	5.0	79913.350	4.0
190.7576	26.02	.55	79840.120	7.0	132262.660	4.0	191.0519	26.00	-2.72	888.132	1.0	53229.940	1.0
190.7611	28.01	-1.59	53601.190	1.5	106022.790	.5	191.0570	24.02	-1.17	101745.300	3.0	154085.700	3.0
190.7646	9.02	-3.78	416185.420	2.5	668606.050	3.5	191.0593	6.01	-1.08	131735.520	1.5	184074.590	1.5
190.7647	11.02	.05	411548.200	2.5	463968.800	3.5	191.0617	26.02	-2.18	88663.870	4.0	141002.990	4.0
190.7671	15.00	-.15	18747.950	1.5	71167.900	2.5	191.0619	6.01	-2.03	131735.520	1.5	184074.590	1.5
190.7690	25.01	-3.08	31514.350	4.0	83933.770	3.0	191.0627	28.01	-3.73	56424.490	1.5	108763.320	.5
190.7693	8.02	-.81	376067.660	2.0	428487.000	1.0	191.0669	23.02	-.33	89193.470	1.5	141531.170	1.5
190.7745	26.02	-.28	79844.740	6.0	132262.660	6.0	191.0670	26.01	-1.34	20805.830	4.5	73143.480	3.5
190.7778	23.01	-.09	13741.610	3.0	66158.600	4.0	191.0709	23.01	-5.01	3162.800	5.0	55499.380	5.0
190.7808	26.02	-1.44	83138.230	5.0	135554.410	4.0	191.0726	23.01	-4.77	2968.220	4.0	55304.340	4.0
190.7810	24.01	-7.05	12032.720	1.5	64448.840	2.5	191.0753	25.01	-5.94	14593.820	3.0	66929.220	2.0
190.7830	23.02	-.39	89005.640	.5	141421.420	.5	191.0829	24.00	-4.09	7750.780	3.0	60084.090	1.0
190.7835	25.02	-.27	90745.060	5.5	143161.500	4.5	191.0831	23.01	-7.44	2808.760	3.0	55142.010	3.0
190.7847	25.01	-.99	14593.820	3.0	67008.930	3.0	191.0847	28.01	-2.22	68709.760	.5	121042.570	1.5
190.7867	18.01	-3.52	151087.250	2.5	203501.800	2.5	191.0847	27.02	.24	82363.300	4.5	134696.100	5.5
190.7925	26.01	-2.92	8680.470	1.5	61093.440	2.5	191.0855	28.02	-1.80	86646.200	2.0	138978.800	1.0
190.7969	26.02	-1.30	136612.780	4.0	189024.530	5.0	191.0869	26.01	-5.52	25805.320	4.5	78137.530	3.5
190.7971	25.01	-4.94	36427.890	0.0	88839.600	1.0	191.0948	25.01	-3.34	27583.300	4.0	79913.350	4.0
190.7987	18.01	-.47	142717.020	3.5	195128.270	4.5	191.0968	27.02	-2.35	83799.600	2.5	136129.100	2.5
190.8043	10.01	-2.14	249445.990	2.5	301855.710	2.5	191.1095	23.02	-2.81	88944.380	2.5	141270.400	3.5
190.8079	24.00	-2.81	8095.210	3.0	60503.940	4.0	191.1119	23.01	-5.52	13490.840	2.0	65816.200	1.0
190.8179	10.01	-3.45	251522.120	1.5	303928.100	.5	191.1128	25.01	-3.95	27588.230	3.0	79913.350	4.0
190.8193	22.01	-.31	225.470	3.5	52631.070	3.5	191.1130	25.02	-1.13	84610.530	.5	136935.600	.5
190.8210	26.01	-3.92	13673.210	1.5	66078.340	2.5	191.1171	25.01	-3.41	29869.110	2.0	82193.040	2.0
190.8213	26.02	-.60	89907.850	4.0	142312.900	3.0	191.1176	27.02	-.69	77383.100	3.5	129706.900	3.5
190.8233	27.02	-1.52	73286.000	4.5	125690.500	3.5	191.1180	27.02	-2.31	55729.200	3.5	108052.900	2.5
190.8251	26.02	-3.40	135705.570	3.0	188109.580	3.0	191.1262	24.01	-1.01	32355.940	3.5	84677.390	3.5
190.8315	26.02	-1.42	79860.420	5.0	132262.660	6.0	191.1280	26.01	-5.77	21430.390	5.5	73751.340	4.5
190.8324	14.02	-3.90	175263.100	1.0	227665.090	2.0	191.1301	24.01	-3.94	33619.130	4.5	85939.500	4.5
190.8325	23.01	-3.45	13594.730	2.0	65996.700	3.0	191.1301	24.00	-.55	8307.570	4.0	60627.960	4.0
190.8327	28.01	-1.68	53037.930	2.5	105439.850	1.5	191.1333	18.01	-2.78	150147.620	2.5	202467.140	1.5
190.8397	25.01	-3.55	38901.800	4.0	91301.600	5.0	191.1339	26.02	-.48	92523.910	5.0	144843.240	5.0
190.8431	26.02	-2.70	136612.780	4.0	189011.840	4.0	191.1369	29.01	-2.35	88926.090	0.0	141244.600	1.0
190.8445	26.02	-3.28	147406.140	5.0	199804.810	4.0	191.1377	23.01	-4.45	339.210	4.0	52657.510	4.0
190.8462	24.00	-.89	8095.210	3.0	60493.420	3.0	191.1381	25.02	-2.50	143097.000	3.5	195415.200	4.5
190.8469	25.01	-1.71	31514.350	4.0	83912.380	5.0	191.1417	28.02	-2.00	83033.800	2.0	135351.000	2.0
190.8499	12.02	-.54	426868.100	1.0	479265.300	0.0	191.1419	25.01	-.80	14325.860	4.0	66643.010	4.0
190.8517	27.01	-.808	27902.500	4.0	80299.200	4.0	191.1420	9.02	-3.53	445006.130	2.5	497323.250	2.5
190.8517	18.01	-4.16	150147.620	2.5	202544.320	2.5	191.1431	23.01	-5.23	17910.980	4.0	70227.800	5.0
190.8528	27.01	-1.42	13261.100	2.0	65657.500	1.0	191.1441	26.02	-1.07	83237.860	3.0	135554.410	4.0
190.8548	25.01	-.71	33147.390	5.0	85543.230	5.0	191.1449	9.02	-2.24	445006.130	2.5	497322.460	3.5
190.8566	18.01	-1.76	155351.030	1.5	207746.380	2.5	191.1468	17.02	-3.37	202367.600	3.5	254683.400	2.5
190.8567	25.01	-3.70	33278.390	3.0	85673.720	4.0	191.1518	26.02	-3.62	144586.830	5.0	196901.270	5.0
190.8584	26.02	-3.54	147305.970	3.0	199700.830	4.0	191.1531	18.01	-2.08	142717.020	3.5	195031.120	2.5
190.8599	23.01	-5.83	13490.840	2.0	65885.300	2.0	191.1556	26.01	-9.75	26932.740	.5	79246.130	1.5
190.8654	26.02	-1.49	83161.480	4.0	135554.410	4.0	191.1572	26.01	-4.90	20830.520	2.5	73143.480	3.5
190.8830	26.01	-3.51	31483.200	3.5	83871.310	4.5	191.1633	25.02	-2.02	86051.500	2.5	138362.800	3.5
190.8832	26.01	-4.11	21581.640	4.5	73969.710	5.5	191.1644	26.01	-2.47	26932.740	.5	79243.730	1.5
190.8845	23.01	-3.11	13609.000	4.0	65996.700	3.0	191.1670	26.01	-2.86	20340.360	5.5	72650.630	4.5
190.8865	26.00	-3.07	888.132	1.0	53275.270	2.0	191.1685	26.02	-.49	83429.610	6.0	135739.470	6.0
190.8901	25.01	-.47	30684.810	1.0	83070.970	2.0	191.1692	20.02	-2.36	227432.110	1.0	279741.800	2.0
190.8927	26.01	-3.64	31483.200	3.5	83868.650	2.5	191.1742	26.02	-.43	88694.670	5.0	141002.990	4.0
190.9074	23.01	-6.07	2968.220	4.0	55349.630	3.0	191.1744	24.00	-2.81	8307.570	4.0	60615.840	3.0
190.9107	24.02	-3.02	63172.200	2.0	115552.700	3.0	191.1745	28.01	-3.75	67694.640	2.5	120002.860	3.5
190.9122	28.02	-.87	78482.900	1.0	130863.000	-1.0	191.1760	26.02	-4.55	135705.570	3.0	188013.400	4.0
190.9126	27.00	-3.69	816.000	3.5	53195.980	2.5	191.1778	25.01	-1.59	14593.820	3.0	66901.140	2.0
190.9140	28.01	-2.61	68735.980	2.5	121115.590	1.5	191.1817	13.02	-2.13	126164.050	.5	178470.320	1.5
190.9161	29.01	-2.55	88605.160	1.0	140984.200	1.0	191.1835	7.01	-1.56	170572.610	2.0	222878.390	2.0
190.9163	26.00	-3.71	7985.783	2.0	60364.760	3.0	191.1838	26.02	-2.36	83429.610	6.0	135735	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
191.2847	26.02	-3.54	135735.310	5.0	188013.400	4.0	191.5320	24.00	-4.55	8307.570	4.0	60518.160	3.0
191.2917	26.02	-5.59	46591.680	1.0	118867.870	1.0	191.5320	24.00	-3.48	8307.570	4.0	60518.160	3.0
191.2946	17.02	-5.55	151848.600	2.5	204124.000	1.5	191.5323	25.01	-4.47	29889.310	3.0	82099.820	4.0
191.2960	27.02	-4.46	77472.300	2.5	129747.300	2.5	191.5324	26.01	-1.11	20805.830	4.5	73016.330	3.5
191.2965	25.01	-8.89	39808.140	3.0	92083.000	3.0	191.5355	23.01	-4.48	36.050	1.0	52245.680	2.0
191.3003	25.01	-5.76	29919.220	2.0	82193.040	2.0	191.5371	27.02	-1.60	77383.100	3.5	129592.300	4.5
191.3012	25.02	-3.80	90936.220	1.5	143209.800	2.5	191.5392	23.01	-5.40	2604.820	1.0	54813.450	0.0
191.3022	22.02	-2.26	77746.180	3.0	130019.500	3.0	191.5419	28.02	-1.83	84604.800	1.0	136812.700	2.0
191.3024	24.00	-4.01	7810.820	1.0	60084.090	1.0	191.5489	28.02	-1.39	86846.200	2.0	138852.200	3.0
191.3068	25.01	-2.75	31661.720	3.0	83933.770	3.0	191.5508	26.02	-1.54	93412.930	2.0	145618.390	2.0
191.3074	24.02	-3.04	49827.700	3.0	102099.600	4.0	191.5518	28.02	-1.16	78657.800	0.0	130863.000	1.0
191.3081	23.01	-1.05	13511.710	1.0	65783.400	0.0	191.5536	10.02	-1.90	357930.000	2.0	410134.720	1.0
191.3125	7.01	-1.95	170607.890	1.0	222878.390	2.0	191.5556	24.01	-2.84	20512.750	5.5	72716.910	4.5
191.3154	23.02	-3.04	49805.290	3.5	102075.000	2.5	191.5622	18.02	-4.48	156924.680	2.0	209127.040	1.0
191.3157	25.01	-1.90	39813.380	2.0	92083.000	3.0	191.5637	9.01	-0.95	237508.230	3.0	289710.200	2.0
191.3162	11.02	-1.39	410987.900	3.5	463257.400	2.5	191.5662	9.01	-1.85	237508.920	2.0	289710.200	2.0
191.3166	13.02	-2.44	121644.050	.5	178433.430	.5	191.5688	23.01	-4.29	26839.820	3.0	79040.400	3.0
191.3190	10.01	-4.44	251011.180	2.5	303279.910	2.5	191.5732	25.01	-3.14	33248.320	4.0	85447.700	5.0
191.3202	25.03	-1.02	120603.100	4.0	172871.500	5.0	191.5757	9.01	-1.79	237507.650	4.0	289706.330	3.0
191.3230	18.01	-2.54	138243.550	1.5	190511.190	2.5	191.5758	26.02	-1.11	66522.950	2.0	118721.600	2.0
191.3253	26.00	-4.34	415.932	3.0	52682.930	2.0	191.5761	24.01	-4.36	20518.330	3.5	72716.910	4.5
191.3286	27.02	-2.22	73726.600	2.5	125992.700	2.5	191.5779	9.01	-1.85	237508.230	3.0	289706.330	3.0
191.3308	27.01	-2.84	11321.500	2.0	63587.000	3.0	191.5804	9.01	-3.40	237508.920	2.0	289706.330	3.0
191.3370	18.01	-2.87	138243.550	1.5	190507.360	1.5	191.5817	24.01	-3.59	20519.850	4.5	72716.910	4.5
191.3385	26.02	-0.73	89783.590	4.0	142047.000	4.0	191.5830	28.02	-3.34	82826.900	4.0	135023.600	3.0
191.3431	28.01	-3.52	68965.650	1.5	121227.800	2.5	191.5834	28.02	-1.18	85834.800	5.0	138031.400	4.0
191.3497	29.01	-2.51	85388.770	2.0	137649.100	2.0	191.5842	24.00	-3.00	8307.570	4.0	60503.940	4.0
191.3509	28.01	-3.05	53601.190	1.5	105861.190	2.5	191.5966	25.01	-5.24	27546.900	6.0	79739.880	5.0
191.3592	18.01	-4.35	151087.250	2.5	203344.980	1.5	191.6012	23.02	-3.57	88559.080	1.5	140750.820	2.5
191.3621	26.02	-0.71	66464.640	3.0	118721.600	2.0	191.6047	25.02	-4.21	90936.220	1.5	143127.000	.5
191.3625	23.02	-1.76	89457.670	2.5	141714.500	2.5	191.6069	27.02	-4.12	83938.900	3.5	136129.100	2.5
191.3653	26.02	-2.51	137423.000	3.0	189679.070	3.0	191.6069	23.02	-3.32	102075.000	2.5	154265.200	3.5
191.3689	23.01	-3.75	13741.610	3.0	65996.700	3.0	191.6076	18.01	-3.13	143107.600	2.5	195297.610	1.5
191.3722	25.01	-1.31	30684.810	1.0	82939.000	1.0	191.6082	10.01	-0.66	224087.020	1.5	276276.850	1.5
191.3733	26.02	-3.30	69695.730	4.0	121949.620	5.0	191.6113	27.02	-1.10	70934.100	2.5	123123.100	1.5
191.3740	25.02	-3.25	143161.500	4.5	195415.200	4.5	191.6127	26.01	-3.42	8846.760	.5	61035.370	.5
191.3766	23.01	-6.56	11295.510	0.0	63548.500	1.0	191.6219	22.02	-2.52	81023.600	2.0	133209.700	3.0
191.3769	27.01	-2.51	13404.600	1.0	65657.500	1.0	191.6228	24.00	-1.26	8307.570	4.0	60493.420	3.0
191.3773	25.03	-2.20	119445.500	2.0	171698.300	2.0	191.6230	26.01	-7.05	20830.520	2.5	73016.330	3.5
191.3773	11.02	-1.04	366165.300	2.5	418418.100	1.5	191.6248	26.03	-2.72	137698.900	.5	189884.200	1.5
191.3785	10.01	-2.55	249695.530	1.5	301948.000	1.5	191.6322	25.02	-3.23	86051.500	2.5	138234.790	1.5
191.3801	23.02	-0.15	88944.380	2.5	141196.430	2.5	191.6331	23.01	-4.59	208.890	3.0	52391.940	3.0
191.3807	26.00	-3.57	978.076	0.0	53229.940	1.0	191.6396	23.01	-3.47	13609.000	4.0	65790.280	4.0
191.3823	26.02	-3.61	137544.600	2.0	189796.030	1.0	191.6400	23.01	-3.94	0.000	0.0	52181.180	1.0
191.3850	29.02	-4.57	144194.200	2.5	196444.900	1.5	191.6417	27.02	-2.41	77411.600	5.5	129592.300	4.5
191.3871	26.02	-3.84	70694.030	5.0	122944.150	4.0	191.6465	25.03	-2.45	137853.000	4.0	190032.400	4.0
191.3894	28.02	-0.67	79250.800	4.0	131500.300	5.0	191.6510	26.02	-1.10	83138.230	5.0	135316.420	5.0
191.3910	24.01	-2.67	32355.940	3.5	84604.990	2.5	191.6531	17.02	-1.68	151946.400	.5	204124.000	1.5
191.3964	23.01	-6.20	13542.680	3.0	65790.280	4.0	191.6670	26.02	-3.54	70725.010	3.0	122898.840	2.0
191.3970	25.01	-1.72	39813.380	2.0	92060.800	1.0	191.6671	23.01	-7.55	2968.220	4.0	55142.010	3.0
191.4022	22.01	-1.37	225.470	3.5	52471.480	2.5	191.6695	26.01	-3.61	21430.390	5.5	73603.330	5.5
191.4038	26.02	-1.65	69695.730	4.0	121941.290	4.0	191.6706	25.01	-1.50	31760.930	2.0	83933.770	3.0
191.4056	26.02	.36	30088.840	3.0	82333.920	3.0	191.6753	7.01	-2.22	170572.610	2.0	222744.160	1.0
191.4058	24.01	-2.48	33694.470	5.5	85939.500	4.5	191.6796	27.02	-1.82	78927.800	3.5	131098.200	4.5
191.4092	17.02	-0.86	151879.900	1.5	204124.000	1.5	191.6821	26.01	-3.55	21581.640	4.5	73751.340	4.5
191.4150	28.02	-3.69	82172.900	3.0	134415.400	4.0	191.6847	10.03	-1.76	642184.000	1.5	694353.000	2.5
191.4154	26.02	-2.72	134549.380	1.0	186791.780	2.0	191.6850	25.01	-3.98	27570.950	5.0	79739.880	5.0
191.4172	25.01	-4.08	29951.120	1.0	82193.040	2.0	191.6852	26.02	-4.01	147635.950	3.0	199804.810	4.0
191.4177	9.02	-2.29	391626.910	3.5	443868.680	2.5	191.6953	26.02	-1.71	82382.870	3.0	134549.000	3.0
191.4221	23.01	-7.44	3162.800	5.0	55403.380	6.0	191.6958	18.01	-1.13	142717.020	3.5	194883.000	3.5
191.4245	26.02	-2.91	137544.600	2.0	189784.520	2.0	191.7081	26.02	-3.33	134549.380	1.0	186712.020	1.0
191.4279	10.03	-0.30	524676.000	1.5	576915.000	1.5	191.7085	26.02	-0.24	84369.920	2.0	136532.450	2.0
191.4279	10.03	-3.45	524676.000	1.5	576915.000	2.5	191.7089	26.02	-4.92	130256.270	5.0	182418.700	4.0
191.4291	23.01	-6.53	2968.220	4.0	55206.870	5.0	191.7104	28.02	-3.61	82172.900	3.0	134334.900	3.0
191.4321	22.01	-1.55	393.220	4.5	52631.070	3.5	191.7114	26.02	-2.23	136793.820	2.0	188955.560	3.0
191.4372	24.01	-7.96	25033.950	3.5	77270.400	4.5	191.7142	25.01	-3.06	49427.320	4.0	101588.300	3.0
191.4391	25.02	-1.82	85200.760	5.5	137436.700	4.5	191.7168	24.00	-2.38	8307.570	4.0	60467.850	5.0
191.4428	26.02	-4.26	137561.100	1.0	189796.030	1.0	191.7171	10.01	-2.91	249695.530	1.5	301855.710	2.5
191.4440	27.02	-2.38	77472.300	2.5	129706.900	3.5	191.7198	28.01	-2.15	68156.570	1.5	120316.020	.5
191.4452	18.01	-2.27	155043.070	2.5	207277.350	1.5	191.7233	26.02	-2.70	136797.050	3.0	188955.560	3.0
191.4453	25.01	-1.48	39826.570	1.0	92060.800	1.0	191.7250	26.02	.20	114339.950	4.0	166498.000	3.0
191.4455	18.02	-2.22	156917.620	3.0	209151.820	2.0	191.7302	24.00	-4.22	7927.470	2.0	60084.090	1.0
191.4500	25.01	-2.29	30684.810	1.0	82917.780	2.0	191.7304	25.01	-5.29	27583.300	4.0	79739.880	5.0
191.4548	25.01	-1.56	39808.140	3.0	92039.800	2.0	191.7311	26.02	-4.43	130256.270	5.0	182412.650	4.0
191.4624	25.01	-4.75	27570.950	5.0	79800.520	4.0	191.7314	27.02	-0.37	79425.300	2.5	131581.600	3.5
191.4691	25.01	-0.78	14781.190	2.0	67008.930	3.0	191.7321	26.01	-1.21	15844.710	4.5	68000.820	4.5
191.4691	23.02	-0.57	89193.470	1.5	141421.220	.5	191.7329	26.01	-3.23	25981.650	3.5	78137.530	3.5
191.4713	18.02	-0.96	156924.680	2.0	209151.820	2.0	19						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
191.7857	23.01	-5.69	3162.800	5.0	55304.340	4.0	192.0523	25.02	-4.71	179683.610	4.5	231752.760	5.5
191.7904	25.01	-3.24	30795.750	4.0	82936.010	3.0	192.0527	28.01	-4.86	67031.020	5.5	119100.060	1.5
191.7945	26.02	-.16	89907.850	4.0	142047.000	4.0	192.0581	28.01	-1.68	53601.190	1.5	105668.780	2.5
191.7945	26.02	-.19	89907.850	5.0	142047.000	4.0	192.0606	28.02	-2.86	131792.400	4.0	188559.300	3.0
191.7948	23.01	-4.48	106.630	2.0	52245.680	2.0	192.0644	26.02	-4.16	147635.950	3.0	199701.820	3.0
191.7971	26.02	-.08	82410.940	2.0	134549.380	1.0	192.0658	29.01	-1.14	66418.520	2.0	118484.000	3.0
191.7985	26.02	-.83	82410.940	2.0	134549.000	3.0	192.0703	24.00	-5.77	0.000	3.0	52064.270	4.0
191.8002	28.02	-.06	103306.100	3.0	155443.700	2.0	192.0713	27.01	-1.85	13593.500	0.0	65657.500	1.0
191.8051	7.01	-2.55	170607.890	1.0	222744.160	1.0	192.0715	18.01	-4.32	151087.250	2.5	203151.200	2.5
191.8054	24.01	-4.02	20512.620	2.5	72648.790	3.5	192.0753	26.02	-.48	92523.910	5.0	144586.830	5.0
191.8075	27.02	-1.52	73286.000	4.5	125421.600	4.5	192.0836	10.01	-4.29	251011.180	2.5	303071.640	2.5
191.8099	18.02	-.84	157031.400	1.0	209166.350	0.0	192.0853	28.02	-2.78	82172.900	3.0	134233.100	2.0
191.8100	26.01	-1.14	20516.980	2.5	72651.910	3.5	192.0861	7.02	-.65	336213.400	2.5	388273.400	3.5
191.8117	26.02	-2.81	137544.600	2.0	189679.070	3.0	192.0890	26.03	-2.76	137947.500	1.5	190006.700	2.5
191.8138	26.02	-2.58	136008.740	3.0	188142.640	2.0	192.0890	28.01	-2.17	70778.120	3.5	122837.330	4.5
191.8186	25.02	-4.21	179228.690	1.5	231361.280	2.5	192.0920	23.01	-4.13	12545.150	4.0	64603.530	3.0
191.8193	24.02	-2.93	63420.300	3.0	115552.700	3.0	192.0930	29.01	-2.45	88926.090	0.0	140984.200	1.0
191.8248	27.02	-3.36	73861.800	1.5	125992.700	2.5	192.0933	26.02	-4.16	144843.240	5.0	196901.270	3.0
191.8264	24.01	-3.66	20518.330	3.5	72648.790	3.5	192.0963	25.02	-2.07	86578.240	3.5	138635.460	2.5
191.8284	26.02	-.04	66591.680	1.0	118721.600	2.0	192.0971	25.01	-1.44	55115.800	2.0	107172.800	3.0
191.8311	22.02	-2.95	80938.020	1.0	133067.200	2.0	192.0979	26.01	-2.33	31811.870	2.5	83868.650	2.5
191.8320	24.01	-3.38	20519.850	4.5	72648.790	3.5	192.1004	7.02	-.04	336303.100	5.5	388359.200	1.5
191.8331	25.00	-3.04	0.000	2.5	52128.650	2.5	192.1030	24.01	-4.35	30864.610	2.5	82920.030	1.5
191.8347	18.02	-2.80	174375.000	2.0	226503.220	3.0	192.1064	26.02	-4.25	82494.880	1.0	134549.380	1.0
191.8365	22.02	-.36	77746.180	3.0	129873.900	2.0	192.1125	26.02	-.17	105929.160	3.0	157982.000	3.0
191.8367	28.01	-2.92	1506.940	1.5	53634.020	1.5	192.1129	23.01	-4.54	339.210	4.0	52391.940	3.0
191.8423	9.02	-2.03	391626.910	3.5	443753.060	2.5	192.1149	24.01	-4.48	33521.230	3.5	85573.420	3.5
191.8459	26.02	-.02	84671.870	3.0	136797.050	3.0	192.1150	18.01	-1.44	155043.070	2.5	207095.230	2.5
191.8469	11.02	-.71	410987.900	3.5	463112.800	3.5	192.1175	26.02	-.79	90483.590	3.0	142535.070	2.0
191.8498	28.01	-3.98	56424.490	1.5	108540.610	1.5	192.1212	25.01	-1.48	30684.810	1.0	82735.290	2.0
191.8517	26.02	-3.95	130256.270	5.0	182379.860	5.0	192.1228	23.02	-1.56	89457.670	2.5	141507.700	3.5
191.8533	25.01	-2.15	49465.130	3.0	101588.300	3.0	192.1234	23.01	-1.63	20242.320	4.0	72292.200	4.0
191.8576	24.03	-1.04	109950.000	2.5	162072.000	3.5	192.1259	25.01	-.26	14593.820	3.0	66643.010	4.0
191.8577	26.02	-.12	84671.870	3.0	136793.820	2.0	192.1264	26.02	-2.13	63425.170	6.0	115474.250	6.0
191.8634	18.02	-2.14	157031.400	1.0	209151.820	2.0	192.1279	23.01	-4.73	13741.610	3.0	65790.280	4.0
191.8635	25.03	-2.56	119961.500	3.0	172081.900	3.0	192.1301	25.02	-4.26	179339.590	2.5	231387.660	3.5
191.8647	24.00	-3.56	8307.570	4.0	60427.630	5.0	192.1374	12.02	-1.16	478374.500	1.0	530420.600	1.0
191.8651	25.01	-1.41	14781.190	2.0	66901.140	2.0	192.1399	29.02	-2.90	145353.000	1.5	197398.400	2.5
191.8688	26.02	-1.51	135990.620	4.0	188109.580	3.0	192.1399	27.01	-2.09	11321.500	2.0	63366.900	2.0
191.8701	7.02	-.74	336268.000	1.5	388386.600	5.5	192.1405	25.01	-3.78	27546.900	6.0	79592.140	6.0
191.8704	24.02	-2.72	49626.800	2.0	101745.300	3.0	192.1448	23.01	-4.41	3162.800	5.0	55206.870	5.0
191.8778	25.01	-2.48	38901.800	4.0	91018.300	3.0	192.1466	22.02	-3.27	81023.600	2.0	133067.200	2.0
191.8851	25.02	-1.38	86520.940	2.5	138635.460	2.5	192.1492	7.02	-.37	336268.000	1.5	388310.900	2.5
191.8884	29.01	-2.08	66418.520	2.0	118532.150	2.0	192.1496	26.02	-3.64	144843.240	5.0	196886.010	6.0
191.8903	30.02	-2.28	233610.400	2.0	285723.500	3.0	192.1555	26.02	-1.37	83237.860	3.0	135279.040	2.0
191.8906	23.01	-5.58	2604.820	1.0	54717.650	1.0	192.1558	10.01	-3.17	276276.850	1.5	328317.950	2.5
191.8922	25.01	-1.90	14781.190	2.0	66893.790	1.0	192.1577	26.02	-3.17	84159.550	4.0	136200.130	3.0
191.8966	26.02	-.20	90423.680	2.0	142535.070	2.0	192.1619	26.01	-3.94	21711.890	3.5	73751.340	4.5
191.8966	24.02	-3.75	57422.100	4.0	109533.500	4.0	192.1672	26.02	-3.81	134265.420	2.0	186303.440	3.0
191.8988	23.01	-6.68	2604.820	1.0	54715.630	2.0	192.1717	23.01	-4.57	208.890	3.0	52245.680	2.0
191.9010	18.01	-2.92	151087.250	2.5	203197.440	3.5	192.1783	25.01	-2.49	30795.750	4.0	82830.750	4.0
191.9072	25.02	-1.90	85173.880	1.5	137282.400	2.5	192.1794	8.03	-.36	499994.900	5.5	552029.600	1.5
191.9077	10.01	-3.78	249839.630	5.5	301948.000	1.5	192.1830	23.01	-7.48	11514.760	1.0	63548.500	1.0
191.9098	27.01	-1.92	13404.600	1.0	65512.400	0.0	192.1905	26.00	-6.58	0.000	3.0	52031.720	3.0
191.9107	25.01	-2.59	34761.810	5.0	86869.390	6.0	192.1937	23.01	-5.29	2687.010	2.0	54717.850	1.0
191.9117	27.02	-.08	46438.300	4.5	98545.600	3.5	192.1980	6.01	-2.90	181711.030	1.5	233740.700	2.5
191.9166	18.01	-4.21	150147.620	2.5	202253.590	1.5	192.1983	27.02	-1.87	56373.800	2.5	108403.400	1.5
191.9199	18.01	-1.13	142717.020	3.5	194822.100	3.5	192.1987	26.02	-.52	88663.870	4.0	140693.360	3.0
191.9219	26.02	-3.32	70725.010	3.0	122829.550	3.0	192.2001	24.01	-5.61	12032.720	1.5	64061.820	1.5
191.9219	25.01	-4.65	29889.310	3.0	81993.850	4.0	192.2019	23.01	-5.73	2687.010	2.0	54715.630	2.0
191.9222	26.02	-1.85	69836.830	3.0	121941.290	4.0	192.2037	26.00	-6.92	888.132	1.0	52916.278	2.0
191.9289	26.01	-3.42	20516.980	2.5	72619.610	2.5	192.2040	25.01	-3.14	14901.180	1.0	66929.220	2.0
191.9294	25.01	-2.41	37847.900	2.0	89950.400	3.0	192.2130	26.02	-.99	84159.550	4.0	136185.170	5.0
191.9301	25.03	-2.12	137930.100	5.0	190032.400	4.0	192.2145	13.01	-3.36	95546.800	3.0	147572.000	2.0
191.9301	18.03	-3.22	251972.000	2.5	304074.290	2.5	192.2148	29.01	-1.99	71531.500	3.0	123556.640	2.0
191.9330	26.02	-.36	83138.230	5.0	135239.740	4.0	192.2164	26.02	-2.71	136117.940	2.0	188142.640	2.0
191.9355	26.02	-4.08	136008.740	3.0	188109.580	3.0	192.2186	13.01	-3.72	95547.900	2.0	147572.000	1.0
191.9356	26.02	-3.30	70728.750	4.0	122829.550	3.0	192.2186	13.01	-4.11	95547.900	2.0	147572.000	1.0
191.9392	24.01	-7.79	11962.000	5.5	64061.820	1.5	192.2208	28.02	-2.63	82194.300	5.0	134217.800	5.0
191.9413	25.01	-2.53	37851.150	3.0	89950.400	3.0	192.2219	13.01	-4.20	95548.800	1.0	147572.000	0.0
191.9468	10.01	-1.65	254165.010	1.5	306262.770	1.5	192.2219	13.01	-3.99	95548.800	1.0	147572.000	0.0
191.9478	7.02	-.00	336213.400	2.5	388310.900	2.5	192.2235	26.02	-3.89	135990.620	4.0	188013.400	4.0
191.9546	18.02	-.96	157031.400	1.0	209127.040	1.0	192.2241	27.01	-3.30	11321.500	2.0	63344.100	3.0
191.9562	26.02	-2.37	130756.840	6.0	182852.050	7.0	192.2250	26.02	-2.70	134976.220	3.0	186998.000	4.0
191.9571	26.02	-.29	84369.920	2.0	136464.900	1.0	192.2250	18.02	-2.06	187171.120	1.0	239193.480	1.0
191.9589	26.02	-4.17	134360.400	4.0	186454.890	5.0	192.2268	26.01	-7.55	21581.640	4.5	73603.530	5.5
191.9644	11.05	-1.98	996011.000	2.0	1048104.000	1.0	192.2294	25.01	-5.31	27570.950	5.0	79592.140	6.0
191.9657	25.01	-.98	14593.820	3.0	66686.450	3.0							

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
192.3036	23.01	-4.44	17910.980	4.0	69912.100	4.0	192.6159	25.01	-3.60	30795.750	4.0	82712.550	3.0
192.3040	12.02	-2.39	534776.900	2.0	586777.900	3.0	192.6167	22.02	-1.18	80938.020	1.0	132854.600	1.0
192.3078	25.01	-1.17	14901.180	1.0	66901.140	2.0	192.6223	10.02	-2.33	357930.000	2.0	409845.080	2.0
192.3084	26.02	-3.55	130852.250	8.0	182852.050	7.0	192.6226	15.01	-1.94	77711.000	2.0	129626.000	1.0
192.3136	9.02	-4.06	391626.910	3.5	443625.310	2.5	192.6263	11.02	-1.82	411548.200	2.5	463462.200	1.5
192.3201	6.01	-2.67	181696.660	.5	233693.300	1.5	192.6269	24.01	-7.61	12148.000	2.5	64061.620	1.5
192.3222	10.01	-3.28	151522.120	1.5	303518.210	1.5	192.6304	26.02	.21	30088.840	3.0	82001.730	2.0
192.3280	8.03	-1.11	500037.800	1.5	552032.300	2.5	192.6352	25.01	-2.09	29869.110	2.0	81780.700	3.0
192.3350	25.01	-.93	14901.180	1.0	66893.790	1.0	192.6364	18.01	-2.55	139258.250	.5	191169.520	1.5
192.3364	18.01	-4.24	150474.900	1.5	202467.140	1.5	192.6387	22.02	-.63	80943.950	0.0	132854.600	1.0
192.3380	8.03	-1.06	500037.800	1.5	552029.600	1.5	192.6398	26.02	-3.87	73727.640	2.0	125637.980	3.0
192.3386	26.02	-3.67	136117.940	2.0	188109.580	3.0	192.6410	18.01	-2.99	143371.350	1.5	195281.360	.5
192.3452	28.01	-4.43	68154.310	1.5	120144.170	2.5	192.6432	26.02	-3.81	136200.130	3.0	168109.580	3.0
192.3454	28.02	-1.21	83033.800	2.0	135023.600	3.0	192.6440	26.01	-1.67	26932.740	.5	78841.970	.5
192.3493	23.02	-2.60	88944.380	2.5	140933.140	3.5	192.6462	23.01	-5.90	11908.270	2.0	63816.900	3.0
192.3591	24.02	-.04	102099.600	4.0	154089.700	3.0	192.6527	23.01	-5.43	2808.760	3.0	54715.630	2.0
192.3733	6.01	-1.87	181711.030	1.5	233693.300	1.5	192.6530	26.02	-4.61	136235.840	1.0	188142.640	2.0
192.3754	30.02	-3.31	23610.400	2.0	285592.100	2.0	192.6587	25.01	-.61	14781.190	2.0	66686.450	3.0
192.3781	18.02	-4.77	174375.000	2.0	226355.960	2.0	192.6659	26.02	-2.72	70725.010	3.0	122628.340	2.0
192.3791	23.02	-3.24	107165.900	1.5	159146.600	2.5	192.6717	26.02	-3.27	135096.840	3.0	186998.600	4.0
192.3812	27.00	-4.06	816.000	3.5	52796.130	2.5	192.6749	8.01	-4.34	203942.210	.5	255843.100	1.5
192.3857	26.00	-4.72	704.003	2.0	52682.930	2.0	192.6857	10.03	-1.53	525017.000	2.5	576915.000	1.5
192.3881	26.02	-.29	66464.640	3.0	118442.920	3.0	192.6857	10.03	-3.89	525017.000	2.5	576915.000	2.5
192.3891	12.02	-.42	426868.100	1.0	478846.100	2.0	192.6899	26.02	-.42	114325.350	5.0	166222.200	4.0
192.3908	26.02	-1.30	83382.870	3.0	134360.400	4.0	192.6936	26.02	-2.47	136235.840	1.0	188131.700	1.0
192.4030	6.01	-1.97	181696.660	.5	233670.900	.5	192.6954	25.01	-.84	14781.190	2.0	66676.560	2.0
192.4056	25.01	-4.01	29889.310	3.0	81862.840	4.0	192.7017	25.01	-4.36	29919.220	2.0	81812.900	2.0
192.4114	26.02	.07	97041.380	3.0	149013.360	4.0	192.7031	30.02	-4.05	233610.400	2.0	285503.700	1.0
192.4166	10.01	-1.01	254292.190	.5	306262.770	1.5	192.7072	9.02	-4.83	414894.890	4.5	466787.080	4.5
192.4181	26.01	-7.98	27314.930	3.5	79285.100	2.5	192.7102	25.01	-4.84	29889.310	3.0	81780.700	3.0
192.4198	26.00	-3.03	888.132	1.0	52857.840	1.0	192.7177	9.02	-4.99	414897.720	3.5	466787.080	4.5
192.4209	27.02	-2.29	77622.900	4.5	129592.300	4.5	192.7183	26.02	-1.37	90423.680	2.0	142312.900	3.0
192.4219	26.00	-3.11	0.000	4.0	51969.140	3.0	192.7194	27.02	-.77	85474.100	6.5	137363.000	6.5
192.4250	6.01	-1.30	181772.410	3.5	233740.700	2.5	192.7195	18.01	-2.01	143107.600	2.5	194996.490	1.5
192.4310	27.00	-7.21	1406.840	2.5	53373.530	3.5	192.7209	11.02	.03	442710.500	1.5	494599.000	2.5
192.4363	18.01	-3.75	157233.930	3.5	209198.630	2.5	192.7217	26.03	-3.20	138336.300	2.5	190224.600	3.5
192.4384	27.01	-2.99	11651.310	2.0	63616.000	2.0	192.7228	19.02	-2.71	237512.000	2.5	289400.000	2.5
192.4413	27.02	-1.49	73726.600	2.5	125690.500	3.5	192.7272	26.02	-3.81	83429.610	6.0	135316.420	5.0
192.4416	25.02	-1.10	85173.880	1.5	137137.690	1.5	192.7307	26.02	-4.74	147326.850	4.0	199212.720	4.0
192.4476	12.02	.29	532725.700	2.0	584687.900	3.0	192.7317	26.02	-1.13	66464.640	3.0	118350.240	4.0
192.4483	27.02	-.75	91715.100	2.5	143677.100	3.5	192.7346	18.01	-3.53	161048.640	1.5	212933.460	2.5
192.4483	10.03	-3.70	524391.000	.5	576353.000	.5	192.7388	18.01	-4.54	161048.640	1.5	212932.320	1.5
192.4531	26.02	.00	76956.790	3.0	128917.510	2.0	192.7430	26.02	-.08	82382.870	3.0	134265.420	2.0
192.4550	26.02	-6.23	30886.400	4.0	82846.590	4.0	192.7441	26.02	-1.48	114339.950	4.0	166222.200	4.0
192.4562	6.01	-1.97	181711.030	1.5	233670.900	.5	192.7473	27.02	-1.17	73540.200	3.5	125421.600	4.5
192.4632	18.01	-1.79	158167.710	1.5	210125.700	2.5	192.7475	26.02	-3.74	149285.000	3.0	201166.350	3.0
192.4659	6.01	-1.57	181736.050	2.5	233693.300	1.5	192.7485	26.01	-1.87	21308.080	1.5	73189.160	1.5
192.4673	28.01	-3.51	54176.260	.5	106133.140	1.5	192.7487	26.00	-3.26	415.932	3.0	52296.560	2.0
192.4675	56.01	-.01	5674.824	0.0	57631.648	0.0	192.7488	10.03	-.79	642472.000	2.5	694353.000	2.5
192.4702	28.02	-2.78	82277.000	1.0	134233.100	2.0	192.7534	26.00	-3.12	978.076	0.0	52857.840	1.0
192.4736	26.01	-3.76	25787.600	1.5	77742.780	2.5	192.7548	26.01	-2.41	21308.080	1.5	73187.460	.5
192.4739	15.01	-3.68	77711.000	2.0	129666.100	2.0	192.7548	10.01	-2.53	251011.180	2.5	302890.570	2.5
192.4769	24.01	-3.15	33619.130	3.5	85573.420	3.5	192.7554	26.02	-4.70	149285.000	3.0	201164.210	2.0
192.4780	13.01	-1.18	95546.800	3.0	147500.800	4.0	192.7707	28.01	-1.56	52205.950	3.5	104081.040	4.5
192.4786	24.01	-4.63	25033.950	3.5	76987.780	2.5	192.7744	27.02	-.32	78927.800	3.5	130801.900	4.5
192.4802	13.01	-2.61	95546.800	3.0	147500.200	3.0	192.7744	25.03	-3.34	120603.100	4.0	172477.200	4.0
192.4817	13.01	-3.79	95546.800	3.0	147499.800	2.0	192.7748	23.01	-8.42	208.890	3.0	52082.880	4.0
192.4828	24.02	-2.58	49491.000	1.0	101443.700	2.0	192.7767	26.02	-2.19	136235.840	1.0	188109.320	0.0
192.4831	18.01	-3.45	138243.550	1.5	190196.160	.5	192.7815	26.01	-2.41	31999.120	3.5	83871.310	4.5
192.4843	13.01	-1.71	95547.900	2.0	147500.200	3.0	192.7835	28.01	-3.98	68131.210	3.5	120002.860	3.5
192.4857	13.01	-2.24	95547.900	2.0	147499.800	2.0	192.7886	26.02	-1.07	114351.920	3.0	166222.200	4.0
192.4891	13.01	-1.51	95548.800	1.0	147499.800	2.0	192.7891	25.01	-4.23	27588.230	3.0	79458.380	2.0
192.4932	10.01	-3.28	251011.180	2.5	302961.070	1.5	192.7914	26.01	-1.76	31999.120	3.5	83868.650	2.5
192.4952	25.01	-.45	43131.400	2.0	95080.760	1.0	192.7921	25.01	-3.24	27589.030	2.0	79458.380	2.0
192.4958	25.01	-1.08	37851.150	3.0	89800.340	4.0	192.7971	12.02	-2.34	534923.600	3.0	586791.600	2.0
192.5091	18.01	-3.53	150474.900	1.5	202420.490	.5	192.8043	26.02	-.96	79844.740	6.0	131710.790	5.0
192.5108	26.02	-3.49	134937.840	2.0	186882.480	3.0	192.8048	26.02	-.71	84369.920	2.0	136235.840	1.0
192.5125	24.01	-3.87	25043.100	1.5	76987.780	2.5	192.8068	19.02	-.80	192082.000	2.5	243947.400	1.5
192.5158	25.01	-1.72	29869.110	2.0	81812.900	2.0	192.8092	26.02	-1.27	63425.170	6.0	115289.910	5.0
192.5186	26.02	-4.09	134360.400	4.0	186303.440	3.0	192.8135	25.01	-2.06	14781.190	2.0	66644.780	1.0
192.5205	26.02	-1.62	136200.130	3.0	188142.640	2.0	192.8137	28.01	-4.59	79823.030	3.5	131686.560	4.5
192.5261	27.02	-.99	73286.000	4.5	125227.000	3.5	192.8161	25.01	-1.86	29869.110	2.0	81732.000	1.0
192.5265	26.02	-.43	84671.870	3.0	136612.780	4.0	192.8169	18.01	-2.81	138243.550	1.5	190106.230	1.5
192.5271	24.01	-5.40	25047.040	2.5	76987.780	2.5	192.8171	26.02	-.00	87901.870	3.0	139764.480	2.0
192.5358	25.03	-1.53	119445.500	2.0	171383.900	1.0	192.8188	26.02	.62	114325.350	5.0	166167.500	6.0
192.5421	26.03	-2.00	137947.500	1.5	189884.200	1.5	192.8202	25.01	-5.11	29951.120	1.0	81812.900	2.0
192.5458	27.01	-2.55	11651.310	2.0	63587.000	3.0	192.8213	25.01	-5.30	29919.220	2.0	81760.700	3.0
192.5470	26.02	-1.23	83161.480	4.0	135096.840	3.0	192.8213						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
192.8943	25.02	-1.11	86520.940	2.5	138362.800	3.5	193.1817	24.00	-7.37	7593.160	2.0	59357.900	2.0
192.8968	28.02	-1.86	86646.200	2.0	138487.400	3.0	193.1826	28.02	-2.95	62606.300	3.0	114370.800	2.0
192.8992	24.01	-2.36	32836.840	3.5	84677.390	3.5	193.1905	25.02	-4.28	86578.240	3.5	138340.620	2.5
192.8997	24.01	-6.02	11962.000	.5	63802.410	.5	193.1923	25.01	-4.46	29951.120	1.0	81713.020	0.0
192.9062	28.01	-1.56	53601.190	1.5	105439.850	1.5	193.1930	25.02	-1.67	85173.880	1.5	136935.600	.5
192.9079	12.02	-1.68	532725.700	2.0	584563.900	3.0	193.1938	24.02	-3.73	63420.300	3.0	115181.800	2.0
192.9127	24.01	-4.67	31083.110	1.5	82920.030	1.5	193.1992	26.01	-3.91	25981.650	3.5	77742.780	2.5
192.9191	26.01	-2.51	20516.980	2.5	72352.170	3.5	193.1991	24.01	-4.55	32844.920	1.5	84604.900	2.5
192.9310	24.01	-3.45	25047.040	2.5	76879.030	3.5	193.2036	26.02	-4.10	135239.740	4.0	186998.600	4.0
192.9318	22.02	.29	77424.200	3.0	129256.000	4.0	193.2153	27.01	-3.64	13261.100	2.0	65016.300	2.0
192.9332	25.03	-3.14	119445.500	2.0	171276.900	3.0	193.2165	28.01	-6.26	68154.310	1.5	119909.720	1.5
192.9345	26.02	-.78	84159.550	4.0	135990.620	4.0	193.2175	26.02	-.77	105929.160	3.0	157684.300	2.0
192.9347	22.02	.02	81023.600	2.0	132854.600	1.0	193.2201	26.02	-3.67	134549.000	3.0	186303.440	3.0
192.9377	26.02	-.89	84369.920	2.0	136200.130	3.0	193.2214	18.01	-2.63	139258.250	.5	191012.350	1.5
192.9410	28.02	-.02	90483.590	3.0	142312.900	3.0	193.2230	18.01	-1.24	143107.600	2.5	194861.270	2.5
192.9425	27.02	-2.42	73540.200	3.5	125369.100	2.5	193.2255	13.00	-.69	0.000	.5	51753.000	.5
192.9450	26.02	-1.45	136185.170	5.0	188013.400	4.0	193.2267	25.01	-2.48	31022.050	0.0	82774.730	1.0
192.9455	10.01	-2.98	251011.180	2.5	302839.280	2.5	193.2275	14.02	-.98	175336.260	2.0	227088.720	3.0
192.9542	26.00	-4.67	0.000	4.0	51825.758	3.0	193.2371	24.01	-2.37	32855.090	2.5	84604.990	2.5
192.9611	29.01	-1.56	85388.770	2.0	137212.700	1.0	193.2407	23.01	-8.25	11908.270	2.0	63657.200	2.0
192.9613	24.00	-6.59	7593.160	2.0	59417.010	3.0	193.2438	22.02	-2.47	83795.700	1.0	135543.800	0.0
192.9618	26.02	-4.49	73849.100	1.0	125672.830	2.0	193.2441	26.02	-1.27	84369.920	2.0	136117.940	2.0
192.9626	26.02	-2.19	63466.390	5.0	115289.910	5.0	193.2441	25.02	-1.22	86486.770	1.5	138234.790	1.5
192.9638	10.01	-1.14	277325.600	1.5	329148.800	1.5	193.2444	14.02	-1.72	175336.260	2.0	227084.210	2.0
192.9643	10.01	-2.60	277325.600	1.5	329148.670	2.5	193.2450	23.01	-4.19	14556.090	4.0	66303.880	3.0
192.9648	24.01	-2.62	32854.460	4.5	84677.390	3.5	193.2483	26.01	-1.05	21308.080	1.5	73054.970	2.5
192.9671	24.01	-3.48	32855.090	2.5	84677.390	3.5	193.2488	25.02	-2.23	85077.090	4.5	136823.860	3.5
192.9705	26.01	-3.09	20830.520	2.5	72651.910	3.5	193.2490	25.02	-3.14	143161.500	4.5	194908.200	5.5
192.9716	14.02	-1.24	175263.100	1.0	227084.210	2.0	193.2503	26.02	-2.84	131710.790	5.0	183457.150	4.0
192.9753	27.02	.01	47003.100	3.5	98823.200	2.5	193.2544	28.01	-4.24	54262.630	3.5	106007.890	2.5
192.9762	29.01	-1.37	69704.800	4.0	121524.670	3.0	193.2546	27.02	-2.77	76791.100	1.5	128536.300	.5
192.9769	25.02	-1.40	86520.940	2.5	138340.620	2.5	193.2555	29.01	-1.87	66418.520	2.0	118163.500	2.0
192.9791	9.01	-.91	238323.380	3.0	290142.460	2.0	193.2556	14.02	-2.90	175336.260	2.0	227081.190	1.0
192.9828	14.02	-1.71	175263.100	1.0	227081.190	1.0	193.2584	18.01	-1.76	155351.030	1.5	207095.230	2.5
192.9869	26.02	-2.88	131035.070	7.0	182852.050	7.0	193.2604	23.01	-9.87	339.210	4.0	52082.880	4.0
192.9872	24.02	-2.86	49626.800	2.0	101443.700	2.0	193.2606	25.01	-2.10	14901.180	1.0	66644.780	1.0
192.9922	26.02	-3.48	134976.220	3.0	186791.780	2.0	193.2611	28.01	-4.33	66571.340	2.5	118314.820	2.5
192.9930	8.01	-4.43	206786.340	1.5	258601.700	1.5	193.2654	24.01	-.85	39684.000	3.5	91426.310	2.5
192.9940	26.02	-.57	77102.430	2.0	128917.510	2.0	193.2668	23.01	-3.70	12545.150	4.0	64287.100	5.0
192.9943	24.03	-.02	109950.000	2.5	161765.000	1.5	193.2679	25.01	-1.45	43339.100	2.0	95080.760	1.0
192.9944	25.02	-2.06	84981.630	3.5	136796.610	2.5	193.2730	25.01	-3.43	29919.220	2.0	81659.500	3.0
192.9951	26.02	-2.00	137209.730	4.0	189024.530	5.0	193.2731	18.02	-2.31	188517.320	1.0	240257.590	1.0
192.9953	26.02	-1.87	83161.480	4.0	134976.220	3.0	193.2731	9.02	-3.29	414897.720	3.5	466637.990	4.5
192.9968	23.01	-8.38	339.210	4.0	52153.550	5.0	193.2735	18.01	-3.23	157673.320	2.5	209413.480	1.5
192.9974	24.01	-.96	39742.360	2.5	91556.540	1.5	193.2741	27.02	-2.25	76518.900	5.5	128258.900	5.5
193.0008	26.02	-3.35	136200.130	3.0	188013.400	4.0	193.2754	10.01	-1.45	251011.180	2.5	302750.810	3.5
193.0021	26.02	-4.86	147326.850	4.0	199139.760	5.0	193.2787	23.02	-.24	89457.670	2.5	141196.430	2.5
193.0026	25.01	-4.65	29919.220	2.0	81732.000	1.0	193.2802	26.02	-.39	83237.860	3.0	134976.220	3.0
193.0028	23.02	-4.04	89457.670	2.5	141270.400	3.5	193.2817	26.02	-.22	83358.880	2.0	135096.840	3.0
193.0034	10.01	-1.03	224699.270	.5	276511.820	.5	193.2860	25.03	-1.38	119961.500	3.0	171698.300	2.0
193.0059	25.01	-1.37	54938.100	1.0	106750.000	2.0	193.2923	28.01	-3.45	66579.710	1.5	118314.820	2.5
193.0146	25.01	-2.92	30795.750	4.0	82605.290	4.0	193.2948	25.02	-1.13	86578.240	3.5	138312.700	4.5
193.0167	10.03	-1.58	641908.000	.5	693717.000	1.5	193.2972	27.02	-.97	76791.100	1.5	128524.900	2.5
193.0187	26.00	-3.89	704.003	2.0	52512.460	1.0	193.2994	23.01	-2.25	17910.980	4.0	49644.200	3.0
193.0193	26.02	-.52	92523.910	5.0	144332.210	4.0	193.3239	23.02	-2.28	89417.500	3.5	141144.170	4.5
193.0252	22.02	-2.51	83795.700	1.0	135602.400	1.0	193.3249	27.02	-.40	73286.000	4.5	125012.400	4.5
193.0262	23.02	-3.88	88944.380	2.5	140750.820	2.5	193.3275	23.01	-1.74	16421.510	4.0	68147.200	4.0
193.0270	23.01	-3.43	16340.970	3.0	68147.200	4.0	193.3335	25.01	-3.33	14901.180	1.0	66625.280	0.0
193.0286	10.01	-3.78	251011.180	2.5	302816.980	1.5	193.3346	8.01	-4.06	206877.900	2.5	258601.700	1.5
193.0334	10.01	-2.12	277344.290	2.5	329148.800	1.5	193.3355	26.02	-.69	66522.950	2.0	118246.520	3.0
193.0339	10.01	-.98	277344.290	2.5	329148.670	2.5	193.3365	26.02	-2.14	87901.870	3.0	139625.170	4.0
193.0364	12.02	-1.34	478374.500	1.0	530178.200	2.0	193.3371	25.01	-1.30	37847.900	2.0	89571.030	3.0
193.0385	26.02	.55	63486.780	4.0	115289.910	5.0	193.3382	28.01	-3.63	66571.340	2.5	118294.170	3.5
193.0411	24.01	-2.54	31117.590	2.5	82920.030	1.5	193.3417	26.01	-2.72	8680.470	1.5	60402.380	2.5
193.0423	26.02	-3.27	137209.730	4.0	189011.840	4.0	193.3426	26.01	-2.85	20516.980	2.5	72238.630	2.5
193.0442	28.02	-.67	61339.200	4.0	113140.800	5.0	193.3454	13.01	-4.38	95547.900	2.0	147268.800	1.0
193.0446	25.01	-.60	55371.300	3.0	107172.800	3.0	193.3470	26.02	-3.47	131710.790	5.0	183431.280	5.0
193.0468	27.02	-.74	55729.200	3.5	107530.100	3.5	193.3488	13.01	-4.85	95548.800	1.0	147268.800	1.0
193.0505	8.00	-3.09	76794.990	1.0	128594.916	2.0	193.3492	25.01	-2.39	37851.150	3.0	89571.030	3.0
193.0599	13.01	-2.49	95546.800	3.0	147344.200	3.0	193.3494	25.02	-.39	62568.080	1.5	114287.910	2.5
193.0603	26.00	-3.67	415.932	3.0	52213.207	3.0	193.3496	26.02	-4.14	134549.000	3.0	186268.790	2.0
193.0627	26.01	-3.80	22810.330	3.5	74606.970	2.5	193.3499	28.02	-2.53	79143.300	2.0	130863.000	2.0
193.0640	13.01	-1.58	95547.900	2.0	147344.200	3.0	193.3510	26.02	-3.82	134549.380	1.0	186268.790	2.0
193.0673	12.02	-.55	425640.300	2.0	477435.700	2.0	193.3530	10.01	-1.17	254292.190	.5	306011.070	.5
193.0696	26.00	-4.10	868.132	1.0	52682.930	2.0	193.3563	12.02	.44	532971.200	3.0	584689.200	4.0
193.0763	16.05	-.32	522030.000	.5	573823.000	.5	193.3600	24.03	-3.70	182391.000	4.5	234108.000	5.5
193.0860	25.01	-2.23	29869.110	2.0	81659.500	3.0	193.3634	56.01	-1.52	5674.824	0.0	57390.919	0.0
193.0872	26.01	-2.13	20340.360	5.5	72130.440	4.5	193.3645	10.01	-2.				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
193.4636	29.02	-2.09	142426.300	2.5	194115.600	3.5	193.7465	28.01	-1.61	24788.200	1.5	76402.030	2.5
193.4654	29.01	-3.24	85388.770	2.0	137077.600	3.0	193.7481	24.01	-2.57	21822.860	2.5	73436.270	2.5
193.4706	25.01	-1.90	34761.810	5.0	86449.240	4.0	193.7525	27.01	-2.65	13404.600	1.0	65016.830	2.0
193.4708	26.01	-3.05	26055.400	2.5	77742.780	2.5	193.7534	12.02	-0.65	535179.600	2.0	586791.600	2.0
193.4730	27.02	-0.36	73540.200	3.5	125227.000	3.5	193.7555	24.01	-1.58	21824.820	1.5	73436.270	2.5
193.4800	25.01	-1.97	14959.840	0.0	66644.780	1.0	193.7583	19.02	-0.89	190916.000	1.5	242526.700	.5
193.4820	18.01	-3.29	139258.250	.5	190942.650	.5	193.7602	26.02	-4.89	136532.450	2.0	188142.640	2.0
193.4837	24.01	-2.37	39742.360	2.5	91426.310	2.5	193.7609	24.03	.18	110700.000	3.5	162310.000	2.5
193.4837	23.01	-5.15	12545.150	4.0	64229.100	5.0	193.7620	28.02	-3.23	78303.100	2.0	129912.800	2.0
193.4874	26.02	-2.28	89783.590	4.0	141466.530	3.0	193.7656	25.02	-3.57	86051.500	2.5	137660.240	3.5
193.4874	25.02	-3.18	88880.080	2.5	140563.030	3.5	193.7662	28.01	-1.74	53037.930	2.5	104646.520	3.5
193.4903	26.02	-3.41	135316.420	5.0	186998.600	4.0	193.7662	27.02	-0.51	56794.800	1.5	108403.400	1.5
193.5018	27.02	-0.47	56373.800	2.5	108052.900	2.5	193.7689	25.02	-1.80	86520.940	2.5	138128.800	1.5
193.5067	8.01	-4.76	206730.800	.5	258408.600	.5	193.7702	23.01	-3.29	12621.570	5.0	64229.100	5.0
193.5069	26.02	-3.74	136464.900	1.0	188142.640	2.0	193.7749	28.01	-2.67	68709.760	.5	120316.020	.5
193.5086	24.02	-3.55	63038.600	1.0	114715.900	1.0	193.7837	26.02	-3.12	135279.040	2.0	186882.980	3.0
193.5097	10.03	-4.61	524676.000	1.5	576353.000	.5	193.7838	12.02	-0.64	427852.100	0.0	479456.000	1.0
193.5178	22.02	.50	77421.480	2.0	129096.300	3.0	193.7866	7.01	-4.82	168892.210	1.0	220495.360	2.0
193.5280	22.02	-0.83	77424.200	3.0	129096.300	3.0	193.7879	19.02	-2.03	237912.200	1.5	289515.000	1.5
193.5297	26.01	-0.85	15844.710	4.5	67516.370	5.5	193.7890	23.01	-4.26	14556.090	4.0	66158.600	4.0
193.5308	25.01	-2.19	37847.900	2.0	89519.250	2.0	193.7977	25.01	-5.20	27546.900	6.0	79147.100	7.0
193.5344	26.03	-1.99	138336.300	2.5	190006.700	2.5	193.7988	12.02	-2.28	532971.200	3.0	584571.100	2.0
193.5368	24.01	-5.30	0.000	2.5	51669.750	2.5	193.7992	11.02	-0.66	415173.200	1.5	466773.000	1.5
193.5389	23.01	-3.23	20622.990	3.0	72292.200	4.0	193.8003	26.02	.43	114339.950	4.0	165939.470	5.0
193.5427	26.00	-5.31	0.000	4.0	51668.175	4.0	193.8013	26.02	-4.92	136532.450	2.0	188131.700	1.0
193.5430	25.01	-4.51	37851.150	3.0	89519.250	2.0	193.8048	12.02	.50	535179.600	2.0	586777.900	3.0
193.5431	27.00	-3.66	1406.840	2.5	53074.920	1.5	193.8113	26.02	-4.27	138187.930	3.0	189784.520	2.0
193.5448	26.01	-3.84	22939.350	2.5	74606.970	2.5	193.8131	28.02	-3.80	61339.200	4.0	112935.300	3.0
193.5526	23.01	-1.81	12621.570	5.0	64287.100	5.0	193.8172	25.02	-3.13	120974.250	.5	172569.270	1.5
193.5529	27.01	-3.80	18031.500	2.0	69696.970	3.0	193.8173	18.01	-3.47	157673.320	2.5	209268.310	1.5
193.5557	26.01	-8.90	27620.390	2.5	79285.100	2.5	193.8221	25.01	-1.18	30523.450	6.0	82117.160	5.0
193.5576	11.02	.08	411963.900	1.5	463628.100	2.5	193.8249	26.00	-4.35	704.003	2.0	52296.960	2.0
193.5631	24.01	-1.65	21822.860	2.5	73485.600	3.5	193.8251	29.02	-2.34	144194.200	2.5	195787.100	3.5
193.5681	20.02	-0.65	279741.800	2.0	331403.200	1.0	193.8259	12.02	-0.37	532971.200	3.0	584563.900	3.0
193.5685	26.01	-5.75	21430.390	5.5	73091.700	4.5	193.8293	25.01	-1.81	30795.750	4.0	82387.530	3.0
193.5742	18.01	-2.47	143371.350	1.5	195031.120	2.5	193.8322	25.02	-2.44	86654.070	4.5	138245.090	5.5
193.5785	25.02	-1.00	86654.070	4.5	138312.700	4.5	193.8378	28.01	-4.74	76402.030	2.5	127991.560	3.5
193.5840	13.02	.73	115956.210	2.5	167613.370	3.5	193.8395	24.01	-3.05	21822.860	2.5	73411.940	1.5
193.5863	13.02	-0.57	115956.210	2.5	167612.750	2.5	193.8404	26.02	-3.26	137423.000	3.0	189011.840	4.0
193.5880	24.02	-2.87	50089.200	4.0	101745.300	3.0	193.8417	28.02	-4.44	82826.900	4.0	134415.400	4.0
193.5940	28.02	-1.60	78303.100	2.0	129957.600	1.0	193.8447	24.01	-2.01	21824.250	.5	73411.940	1.5
193.5949	13.02	.57	115958.500	1.5	167612.750	2.5	193.8468	24.01	-3.07	21824.820	1.5	73411.940	1.5
193.5973	27.01	-5.97	13261.100	2.0	64914.710	2.0	193.8522	23.01	-1.91	12545.150	4.0	64130.840	4.0
193.6027	26.01	-4.19	20516.980	2.5	72169.150	1.5	193.8569	24.01	-6.61	0.000	2.5	51584.440	1.5
193.6078	28.02	-1.26	78303.100	2.0	129953.900	3.0	193.8571	20.02	-1.59	277022.400	3.0	328606.780	2.0
193.6114	26.02	-4.13	93388.750	4.0	145038.610	3.0	193.8580	28.01	-1.91	14995.570	2.5	66579.710	1.5
193.6211	22.01	-2.93	983.800	2.5	52631.070	3.5	193.8645	24.01	-2.46	21824.250	.5	73400.680	.5
193.6252	26.02	-0.09	93392.450	3.0	145038.610	3.0	193.8653	15.03	-2.19	257520.200	1.0	309102.400	1.0
193.6313	26.02	-2.44	63466.390	5.0	115110.920	4.0	193.8666	24.01	-5.08	21824.820	1.5	73400.680	.5
193.6318	26.02	-3.39	136464.900	1.0	188109.320	0.0	193.8700	23.01	-0.53	12706.150	6.0	64287.100	5.0
193.6346	15.00	-3.11	18747.950	1.5	70391.600	2.5	193.8745	26.02	.22	93388.750	4.0	144968.500	4.0
193.6362	26.02	-3.12	135239.740	4.0	186882.980	3.0	193.8775	26.02	-0.44	83358.880	2.0	134937.840	2.0
193.6390	27.02	-1.40	73726.600	2.5	125369.100	2.5	193.8826	18.02	-0.92	188714.050	3.0	240291.660	2.0
193.6394	23.02	-4.46	101645.610	.5	153288.000	1.5	193.8827	10.01	-1.31	224699.270	.5	276276.850	1.5
193.6407	25.02	-1.71	86486.770	1.5	138128.800	1.5	193.8849	10.03	-3.93	524391.000	.5	575968.000	1.5
193.6417	10.01	-2.36	252798.480	.5	304440.240	.5	193.8884	26.02	-0.99	93392.450	3.0	144968.500	4.0
193.6448	13.00	-0.39	112.061	1.5	51753.000	.5	193.8888	26.02	-3.70	138103.120	4.0	189679.070	3.0
193.6460	26.02	-3.26	66522.950	2.0	118163.560	2.0	193.8895	26.02	.45	84159.550	4.0	135735.310	5.0
193.6460	25.01	-3.72	32787.600	4.0	84428.210	5.0	193.8895	28.01	-2.79	14995.570	2.5	66571.340	2.5
193.6468	28.01	-2.25	68156.570	1.5	119796.980	2.5	193.8899	26.01	-4.38	23031.300	1.5	74606.970	2.5
193.6475	23.01	-7.77	11908.270	2.0	63548.500	1.0	193.8909	27.01	-4.77	9812.700	4.0	61388.100	4.0
193.6528	26.02	-0.50	84369.920	2.0	136008.740	3.0	193.8924	16.05	-0.01	522248.000	1.5	573823.000	.5
193.6559	25.02	-0.43	62456.990	.5	114094.970	1.5	193.8939	26.02	-2.81	135217.170	1.0	186791.780	2.0
193.6660	26.01	-3.27	13474.430	2.5	65109.710	3.5	193.8943	12.02	-0.79	47884.610	2.0	530420.600	1.0
193.6686	28.01	-3.57	70635.460	2.5	122270.050	3.5	193.9030	25.02	-1.69	89204.690	4.5	140776.880	5.5
193.6701	25.01	-0.67	55115.800	2.0	106750.000	2.0	193.9041	26.02	-3.38	66591.680	1.0	118163.560	2.0
193.6733	18.02	-1.34	188517.320	1.0	240150.660	0.0	193.9067	23.03	.47	96798.000	3.0	148369.200	4.0
193.6738	25.01	-1.35	54846.000	0.0	106479.200	1.0	193.9105	26.02	-1.12	83646.980	1.0	135217.170	1.0
193.6781	26.02	-0.59	83646.980	1.0	135279.040	2.0	193.9123	29.02	-4.44	144875.200	1.5	196444.900	1.5
193.6783	27.02	-0.68	76791.100	1.5	128423.100	1.5	193.9137	18.01	-2.01	155708.020	.5	207277.350	1.5
193.6795	26.02	-0.85	89907.850	5.0	141539.550	6.0	193.9154	24.01	-1.99	31351.150	2.5	82920.030	1.5
193.6805	26.01	-1.10	16369.390	3.5	68000.820	4.5	193.9249	20.02	-0.93	277022.400	3.0	328588.760	3.0
193.6850	26.00	-4.53	0.000	4.0	51630.230	5.0	193.9275	25.01	-5.41	27546.900	6.0	79112.560	5.0
193.6918	12.02	-3.00	532725.700	2.0	584354.100	2.0	193.9315	11.02	.40	411548.200	.5	463114.800	3.5
193.6930	27.02	-0.06	47415.400	2.5	99043.500	1.5	193.9333	23.01	-1.76	16340.970	3.0	67905.100	3.0
193.6941	12.03	-1.22	545962.100	.5	597589.900	.5	193.9356	22.01	-3.06	907.960	1.5	52471.480	2.5
193.6960	33.00	1.62	0.000	0.0	51627.292	0.0	193.9360	26.02	-1.35	90483.590	3.0	142047.000	4.0
193.6989	8.01	-0.49	214229.480	1.5	265856.000	2.5	193.9383	28.02	-2.59	82277.000			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
194.0216	25.02	-4.58	94850.660	1.5	146391.300	1.5	194.3368	18.01	-4.07	151087.250	2.5	202544.320	2.5
194.0225	25.02	-4.87	62747.500	2.5	114287.910	2.5	194.3379	25.02	-3.05	121091.080	1.5	172547.850	2.5
194.0242	28.01	-3.68	70635.460	2.5	122175.420	2.5	194.3379	28.01	-3.48	68709.760	1.5	120166.520	1.5
194.0285	25.01	-2.78	34910.430	4.0	86449.240	4.0	194.3400	11.02	-.57	440472.000	2.5	491928.200	3.5
194.0365	25.02	-1.14	97023.800	3.5	148560.500	4.5	194.3408	26.01	-3.55	20805.830	4.5	72261.830	5.5
194.0430	23.01	-5.06	14461.730	3.0	65996.760	3.0	194.3413	26.02	-.39	93512.640	4.0	144968.500	4.0
194.0452	26.00	-4.37	978.076	0.0	52512.460	1.0	194.3463	26.02	-1.37	63494.000	3.0	114948.550	3.0
194.0454	25.02	-.92	62456.990	1.5	113991.310	1.5	194.3465	26.02	-2.11	93388.750	4.0	144843.240	5.0
194.0463	28.01	-2.87	68131.210	3.5	119665.290	2.5	194.3484	26.02	-.34	63494.560	2.0	114948.550	3.0
194.0466	11.02	-.87	417415.500	1.5	468949.500	1.5	194.3513	25.01	-1.16	29869.110	2.0	81322.330	1.0
194.0504	10.03	-.76	642184.000	1.5	693717.000	1.5	194.3514	24.01	-9.24	12148.000	2.5	63601.200	3.5
194.0594	25.00	-6.37	0.000	2.5	51530.610	3.5	194.3522	13.02	-2.18	165786.320	2.5	217239.310	2.5
194.0604	26.02	-.66	77075.300	1.0	128605.650	1.0	194.3522	13.02	-.88	165786.320	2.5	217239.310	3.5
194.0641	26.00	-1.83	415.932	3.0	51945.310	2.0	194.3567	13.02	-1.03	165787.510	1.5	217239.310	2.5
194.0645	25.01	-7.74	27583.300	4.0	79122.560	5.0	194.3592	28.01	-2.58	70635.460	2.5	122086.580	3.5
194.0655	24.00	-7.47	7593.160	2.0	59122.150	3.0	194.3625	25.01	-3.64	32856.950	3.0	84307.200	4.0
194.0670	27.02	-.90	86283.800	4.5	137812.400	3.5	194.3642	27.01	-5.66	4560.800	3.0	56010.600	2.0
194.0677	28.02	-1.41	129953.900	3.0	181482.300	4.0	194.3660	28.01	-4.83	70635.460	2.5	122084.790	1.5
194.0683	26.02	-2.85	84671.870	3.0	136200.130	3.0	194.3717	26.01	-3.69	20516.980	2.5	71964.810	2.5
194.0734	25.02	-2.25	62568.080	1.5	114094.970	1.5	194.3728	26.02	-9.46	30886.400	4.0	82333.920	3.0
194.0759	26.01	-2.14	20516.980	2.5	72043.210	1.5	194.3745	28.01	-1.46	52205.950	3.5	103653.030	3.5
194.0769	26.02	-.05	93512.640	4.0	145038.610	3.0	194.3783	26.02	-1.78	84671.870	3.0	136117.940	2.0
194.0794	18.01	-1.86	157673.320	2.5	209198.630	2.5	194.3791	23.02	-.88	103034.650	4.5	154480.500	4.5
194.0804	28.01	-3.01	68131.210	3.5	119656.250	3.5	194.3799	25.00	-3.04	0.000	2.5	51445.850	1.5
194.0883	23.01	-2.02	12706.150	6.0	64229.100	5.0	194.3831	28.01	-2.51	70635.460	2.5	122080.250	2.5
194.0889	25.02	-4.75	121091.080	1.5	172613.870	2.5	194.3831	25.01	-2.52	35004.430	3.0	86449.240	4.0
194.0932	26.01	-4.58	20830.520	2.5	72352.170	3.5	194.3854	26.02	-3.29	135554.410	4.0	186998.600	4.0
194.1009	25.01	-3.59	32787.600	4.0	84307.200	4.0	194.3887	25.01	-3.97	36274.290	2.0	87717.620	3.0
194.1023	23.02	-3.12	102961.280	3.5	154480.500	4.5	194.3937	26.01	-3.17	44915.070	3.5	96357.070	3.5
194.1158	25.00	-6.29	0.000	2.5	51515.630	2.5	194.3951	26.02	-1.33	83646.980	1.0	135086.600	0.0
194.1158	23.02	-2.72	89417.500	3.5	140933.140	3.5	194.3989	23.01	-3.15	14556.090	4.0	65996.700	3.0
194.1250	24.02	-5.15	43286.400	4.0	94799.600	5.0	194.4015	23.01	-4.53	13490.840	2.0	64930.760	1.0
194.1267	26.02	-3.02	135279.040	2.0	186791.780	2.0	194.4035	18.01	-3.93	157233.930	3.5	208673.320	2.5
194.1285	25.02	-.14	62988.920	3.5	114501.180	4.5	194.4051	25.02	-4.22	91906.100	2.5	143345.070	3.5
194.1286	23.01	-.72	12543.150	4.0	64057.390	3.0	194.4052	10.01	-3.44	251522.120	1.5	302961.070	1.5
194.1288	27.01	-.35	0.000	4.0	51512.200	3.0	194.4080	28.01	-3.07	70706.770	1.5	122144.990	2.5
194.1348	25.02	-2.66	89052.440	3.5	140563.030	3.5	194.4091	25.01	-3.78	30679.240	5.0	82117.160	5.0
194.1366	27.01	-3.41	13404.600	1.0	64914.710	2.0	194.4122	24.02	-3.33	117145.200	5.0	168582.300	6.0
194.1368	26.01	-4.00	21581.640	4.5	73091.700	4.5	194.4179	25.01	-.14	54938.100	1.0	106373.700	2.0
194.1372	29.01	-2.63	66418.520	2.0	117928.480	1.0	194.4196	27.01	-1.69	13593.500	0.0	65028.650	1.0
194.1377	22.02	-.57	77746.180	3.0	129256.000	4.0	194.4213	26.01	-3.16	21581.640	4.5	73016.330	3.5
194.1398	23.01	-.68	12621.570	5.0	64130.840	4.0	194.4278	26.02	-4.69	135279.040	2.0	186712.020	1.0
194.1401	26.00	-4.96	704.003	2.0	52213.207	3.0	194.4328	25.01	-4.89	32836.400	1.0	84268.060	1.0
194.1437	25.01	-3.12	30684.810	1.0	82193.040	2.0	194.4330	26.01	-3.82	21711.890	3.5	73143.480	3.5
194.1446	28.02	-1.99	82826.900	4.0	134334.900	3.0	194.4350	26.02	-2.34	147305.970	3.0	198737.050	4.0
194.1472	27.02	-1.32	73881.800	1.5	125369.100	2.5	194.4360	25.03	-1.05	138123.100	6.0	189553.900	5.0
194.1487	12.02	-.96	479456.000	1.0	530962.900	4.0	194.4374	24.00	-3.06	7927.470	2.0	59357.900	2.0
194.1506	12.02	-1.67	426868.100	1.0	478374.500	1.0	194.4394	28.02	-1.52	78482.900	1.0	129912.800	2.0
194.1558	25.02	-1.22	89052.440	3.5	140557.460	4.5	194.4400	18.01	-2.20	158167.710	1.5	209597.450	1.5
194.1574	11.02	-3.83	367052.300	1.5	418556.900	1.5	194.4453	22.01	-3.13	4897.600	3.5	56325.940	2.5
194.1611	28.01	-2.61	70358.940	4.5	121862.570	3.5	194.4462	27.01	-2.85	9812.700	4.0	61240.800	3.0
194.1612	28.02	-2.11	62606.300	3.0	114109.900	3.0	194.4480	26.02	-2.83	137527.920	4.0	188955.560	3.0
194.1626	26.02	-.32	77102.430	2.0	128605.650	1.0	194.4486	26.01	-3.27	44929.590	2.5	96357.070	3.5
194.1636	23.01	-3.33	14655.630	5.0	66158.600	4.0	194.4598	29.01	-1.12	21928.600	3.0	73353.120	2.0
194.1665	23.02	-4.04	101785.810	1.5	153288.000	1.5	194.4617	25.02	-2.34	144258.500	6.5	195682.500	5.5
194.1701	26.02	-3.87	150654.900	3.0	202156.130	2.0	194.4634	23.01	-5.18	14461.730	3.0	65885.300	2.0
194.1732	27.02	-.17	73726.600	2.5	125227.000	3.5	194.4646	25.02	-.39	62568.080	1.5	113991.310	1.5
194.1797	24.00	-4.88	8307.570	4.0	59806.270	5.0	194.4706	25.01	-4.36	31514.350	4.0	82936.010	3.5
194.1812	11.02	-.27	411963.900	1.5	463462.200	1.5	194.4738	25.03	-1.25	119445.500	2.0	170866.300	2.0
194.1834	28.02	-2.11	82194.300	5.0	133692.000	5.0	194.4747	25.01	-1.96	30679.240	5.0	82099.820	4.0
194.1868	26.02	-2.39	136612.780	4.0	188109.580	3.0	194.4793	24.01	-4.29	39684.000	3.5	91103.360	4.5
194.1875	26.02	-3.01	137527.920	4.0	189024.530	5.0	194.4795	25.01	-.16	54846.000	0.0	106265.300	1.0
194.1881	25.01	-1.68	33147.390	5.0	84643.860	6.0	194.4805	23.01	-3.54	13511.710	1.0	64930.760	1.0
194.1942	26.02	-3.15	135217.170	1.0	186712.020	1.0	194.4806	10.03	-.13	642934.000	3.5	694353.000	2.5
194.1966	25.01	-4.24	36364.300	1.0	87858.910	2.0	194.4872	10.01	-1.34	254165.010	1.5	305582.270	1.5
194.1978	28.02	-3.36	84604.800	1.0	136098.700	1.0	194.4939	22.01	-2.95	1215.580	4.5	52631.070	3.5
194.1993	26.01	-2.11	31811.870	2.5	83305.370	3.5	194.4943	11.02	-1.91	411548.200	2.5	462963.600	1.5
194.2038	12.02	-.09	532971.200	3.0	584463.500	4.0	194.4946	25.02	-3.07	121267.320	2.5	172682.640	3.5
194.2128	18.01	-1.66	143371.350	1.5	194861.270	2.5	194.4969	10.01	-2.88	251011.180	2.5	302425.870	1.5
194.2142	24.00	-2.64	7927.470	2.0	59417.010	3.0	194.4982	25.02	-.97	88880.080	2.5	140294.440	3.5
194.2208	11.02	-.83	414281.000	2.5	465768.800	2.5	194.5013	25.01	-3.63	55759.270	3.0	107172.800	3.0
194.2208	19.02	-1.21	237912.200	1.5	289400.000	2.5	194.5078	28.01	-4.13	70635.460	2.5	122047.290	3.5
194.2212	22.01	-2.36	983.800	2.5	52471.480	2.5	194.5084	26.00	-1.99	415.932	3.0	51827.590	2.0
194.2249	10.01	-4.09	252953.540	1.5	304440.240	1.5	194.5100	18.01	-2.93	138243.550	1.5	189654.780	2.5
194.2302	27.02	-1.73	86327.100	3.5	137812.400	3.5	194.5111	26.02	-3.94	137544.600	2.0	189955.560	3.0
194.2308	29.01	-2.98	71531.500	3.0	123016.630	3.0	194.5127	29.01	-2.41	85388.770	2.0	136799.300	2.0
194.2319	25.02	-.40	94906.450	1.5	146391.300	1.5	194.5139	26.02	-1.61	147326.850	4.0	198737.050	4.0
194.2354	26.02	-2.94	137527.920	4.0	189011.840	4.0	194.51						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
194.5964	24.01	-3.27	31531.620	1.5	82920.030	1.5	194.8130	25.01	-6.00	29889.310	3.0	81220.580	3.0
194.5998	26.02	-4.71	83161.480	4.0	134549.000	3.0	194.8142	26.02	-3.41	134937.840	2.0	186268.790	2.0
194.6031	27.00	-4.49	1809.330	1.5	53195.980	2.5	194.8156	26.02	-3.34	93512.640	4.0	144843.240	5.0
194.6121	22.01	-2.86	1087.210	3.5	52471.480	2.5	194.8219	29.01	-2.99	66418.520	2.0	117747.450	3.0
194.6139	12.03	-0.53	545143.500	1.5	596527.300	2.5	194.8224	26.02	-1.39	147326.850	4.0	198655.660	3.0
194.6158	26.03	-2.39	138841.300	3.5	190224.600	3.5	194.8233	23.01	-4.02	14461.730	3.0	65790.280	4.0
194.6173	12.02	-1.57	32971.200	3.0	584354.100	2.0	194.8233	26.02	-4.10	135554.410	4.0	186882.980	3.0
194.6195	26.02	-1.10	147354.750	5.0	198737.050	4.0	194.8260	20.02	-1.06	228413.950	3.0	279741.800	2.0
194.6208	26.02	-4.22	149013.360	4.0	200395.330	5.0	194.8281	28.02	-1.67	82172.900	3.0	133500.200	2.0
194.6227	26.00	-2.67	0.000	4.0	51381.480	4.0	194.8282	26.02	-0.44	117950.320	4.0	169277.600	4.0
194.6287	18.01	-3.74	151087.250	2.5	202467.140	1.5	194.8284	26.02	-3.26	134976.220	3.0	186303.440	3.0
194.6290	26.01	-4.34	21711.890	3.5	73091.700	4.5	194.8285	25.01	-1.19	54938.100	1.0	106265.300	1.0
194.6311	26.02	-0.31	114339.950	4.0	165719.200	4.0	194.8292	25.02	-0.09	88880.080	2.5	140207.090	2.5
194.6318	29.01	-2.58	88362.030	2.0	139741.100	3.0	194.8292	24.03	-4.82	182391.000	4.5	233718.000	4.5
194.6332	25.01	-0.66	55371.300	3.0	106750.000	2.0	194.8371	25.01	-3.83	27588.230	3.0	78913.170	2.0
194.6358	28.01	-3.32	70706.770	1.5	122084.790	1.5	194.8380	26.02	-1.66	147281.690	1.0	198606.370	2.0
194.6374	27.02	-1.81	86283.800	4.5	137661.400	4.5	194.8383	26.01	-1.64	20805.830	4.5	72130.440	4.5
194.6387	26.02	-3.82	132079.910	3.0	183457.150	4.0	194.8401	25.01	-3.36	27589.030	2.0	78913.170	2.0
194.6392	26.01	-3.28	21812.040	1.5	73189.160	1.5	194.8468	24.01	-1.88	31531.620	1.5	82854.000	5.0
194.6405	26.02	-2.70	132079.910	3.0	183456.690	3.0	194.8490	24.00	-2.24	8095.210	3.0	59417.010	3.0
194.6422	28.01	-4.14	78955.450	1.5	130331.780	1.5	194.8505	25.01	-3.61	30795.750	4.0	82117.160	5.0
194.6432	26.01	-2.01	27314.930	3.5	78690.980	2.5	194.8606	26.02	-0.92	84671.870	3.0	135990.620	4.0
194.6442	11.02	-0.86	440552.400	3.5	491928.200	3.5	194.8647	25.01	-5.16	29919.220	2.0	81236.890	1.0
194.6452	9.02	-0.42	418188.480	5.0	469564.010	5.0	194.8657	27.02	-0.91	47864.800	5.0	99182.200	5.0
194.6454	26.02	-2.32	150654.900	3.0	202030.380	3.0	194.8666	10.01	-2.43	251522.120	1.5	302839.280	2.5
194.6456	26.01	-4.02	21812.040	1.5	73187.460	5.0	194.8695	25.01	-0.94	31514.350	4.0	82830.750	4.0
194.6480	25.02	-3.28	121480.240	3.5	172855.020	4.5	194.8719	26.02	-3.03	136793.820	2.0	188109.580	3.0
194.6504	29.01	-3.06	69704.800	4.0	121078.960	3.0	194.8731	9.02	-0.72	418248.560	1.5	469564.010	5.0
194.6514	26.00	-5.06	0.000	4.0	51373.894	5.0	194.8733	25.03	-1.38	119961.500	3.0	171276.900	3.0
194.6530	28.01	-3.34	70706.770	1.5	122080.250	2.5	194.8742	26.02	-1.62	147291.210	2.0	198606.370	2.0
194.6544	9.02	-0.71	418188.480	5.0	469561.580	1.5	194.8763	25.01	-1.13	30679.240	5.0	81993.850	4.0
194.6586	24.03	-0.18	110700.000	3.5	162072.000	3.5	194.8790	22.02	-0.86	78158.710	4.0	129472.600	5.0
194.6605	25.02	-3.50	144311.000	5.5	195682.500	5.5	194.8813	23.01	-4.75	13490.840	2.0	64804.130	2.0
194.6616	24.02	-4.02	57422.100	4.0	108793.300	4.0	194.8822	26.02	-2.14	69695.730	4.0	121008.780	3.0
194.6616	25.01	-4.63	29951.120	1.0	81322.330	1.0	194.8823	9.02	-0.02	418248.560	1.5	469561.580	1.5
194.6627	26.02	-4.37	149013.360	4.0	200384.280	3.0	194.8842	26.02	-3.04	136797.050	3.0	188109.580	3.0
194.6645	18.02	-2.24	187823.050	2.0	239193.480	1.0	194.8850	25.01	-4.03	41204.340	5.0	92516.650	4.0
194.6680	30.02	-3.83	234384.000	3.0	285753.500	2.0	194.8854	26.02	-3.92	149013.360	4.0	200325.560	4.0
194.6699	17.01	-3.69	110302.000	1.0	161671.000	0.5	194.8880	26.01	-2.58	21308.080	1.5	72619.610	2.5
194.6720	10.01	-1.56	251522.120	1.5	302890.570	2.5	194.8884	26.02	-4.09	128371.530	0.0	179682.940	1.0
194.6746	25.01	-4.86	29869.110	2.0	81236.890	1.0	194.8895	26.02	-2.30	83237.860	3.0	134549.000	3.0
194.6765	26.02	-0.37	114351.920	3.0	165719.200	4.0	194.8936	25.01	-2.22	31760.930	2.0	83070.970	2.0
194.6790	27.02	-0.03	57036.800	5.0	108403.400	1.5	194.8950	10.01	-3.21	251522.120	1.5	302839.280	5.0
194.6790	23.03	-1.58	100200.700	2.0	151567.300	2.0	194.8996	28.01	-1.55	70778.120	3.5	122086.580	3.5
194.6795	18.01	-1.17	144709.910	5.0	196076.390	1.5	194.9000	24.01	-1.96	34631.140	4.5	85939.500	4.5
194.6805	19.02	-1.53	192082.000	2.5	243448.200	1.5	194.9080	26.01	-4.46	31999.120	3.5	83309.370	3.5
194.6821	11.02	-1.13	367052.300	1.5	418418.100	1.5	194.9110	26.02	-2.47	89697.520	3.0	141062.990	4.0
194.6826	28.01	-3.15	25036.380	2.5	76402.030	2.5	194.9112	25.00	-2.72	0.000	2.5	51309.410	2.5
194.6828	26.02	-3.47	134937.840	2.0	186303.440	3.0	194.9141	26.00	-3.84	0.000	4.0	51304.650	4.0
194.6840	26.00	-5.37	0.000	4.0	51365.300	4.0	194.9149	26.01	-4.83	21711.890	3.5	73016.330	3.5
194.6867	26.01	-4.13	44915.070	3.5	96279.650	2.5	194.9163	25.01	-2.74	30795.750	4.0	82099.820	4.0
194.6872	26.02	-1.92	147291.210	2.0	198655.660	3.0	194.9169	23.02	-0.95	102961.280	3.5	154265.200	3.5
194.6880	28.01	-3.63	70748.700	5.0	122112.940	5.0	194.9177	25.02	-3.02	91906.100	2.5	143209.800	2.5
194.6912	25.01	-1.20	55115.800	2.0	106479.200	1.0	194.9230	24.01	-2.75	39684.000	3.5	90986.310	3.5
194.6931	25.01	-1.10	30523.450	6.0	81886.330	5.0	194.9237	28.01	-3.46	70778.120	3.5	122080.250	2.5
194.6942	28.01	-4.72	70778.120	3.5	122140.710	4.5	194.9244	25.02	-4.85	121267.320	2.5	172569.270	1.5
194.6985	26.00	-1.10	0.000	4.0	51361.460	3.0	194.9266	25.01	-6.17	29919.220	2.0	81220.580	3.0
194.7035	25.02	-3.90	121091.080	1.5	172451.230	1.5	194.9268	25.01	-4.64	40759.500	0.0	92060.800	1.0
194.7047	26.02	-1.63	92523.910	5.0	143883.740	5.0	194.9276	28.02	-1.79	83033.800	2.0	134334.900	3.0
194.7052	26.01	-3.28	13474.430	2.5	64834.120	1.5	194.9303	26.02	-1.84	147305.970	3.0	198606.370	2.0
194.7078	29.02	-3.73	144194.200	2.5	195553.200	2.5	194.9323	25.02	-1.42	85200.760	5.5	136500.630	6.5
194.7103	25.02	-2.34	89204.690	4.5	140563.030	3.5	194.9325	28.02	-3.11	78657.800	0.0	129957.600	1.0
194.7120	25.03	-2.36	137853.000	4.0	189210.900	4.0	194.9331	25.02	-0.90	88880.080	2.5	140179.740	2.5
194.7143	25.02	-2.30	86578.240	3.5	137935.530	4.5	194.9356	25.02	-0.30	62988.920	3.5	114267.910	2.5
194.7219	17.01	-2.41	110299.500	2.0	161654.800	1.0	194.9376	8.01	-3.78	214169.740	5.0	265468.200	5.0
194.7238	25.02	-0.80	97000.800	4.5	148355.600	3.5	194.9376	8.01	-3.36	214169.740	5.0	265468.200	1.5
194.7276	24.02	-2.39	101745.300	3.0	153099.100	4.0	194.9389	25.01	-2.19	35004.430	3.0	86302.550	3.0
194.7313	17.01	-2.32	110302.000	1.0	161654.800	1.0	194.9448	10.01	-2.00	251011.180	2.5	302307.750	2.5
194.7315	25.02	-0.21	89204.690	4.5	140557.460	4.5	194.9461	26.02	-0.69	77075.300	1.0	128371.530	0.0
194.7332	24.01	-7.29	12496.790	4.5	63849.110	5.5	194.9474	29.02	-2.59	142819.700	3.5	194115.600	3.5
194.7353	26.02	-2.80	132104.940	2.0	183456.690	3.0	194.9513	10.01	-2.88	251522.120	1.5	302816.980	1.5
194.7364	25.01	-5.06	29869.110	2.0	81220.580	3.0	194.9523	25.02	-0.30	94771.470	2.5	146066.070	1.5
194.7370	17.01	-2.69	110303.500	0.0	161654.800	1.0	194.9542	27.02	-0.43	76791.100	1.5	128085.200	2.5
194.7381	23.02	-2.24	105320.180	1.5	156671.200	2.5	194.9565	11.02	-1.10	411963.900	1.5	463257.400	2.5
194.7407	23.01	-4.07	18293.870	2.0	69644.200	3.0	194.9578	23.02	-2.81	89457.670	2.5	140750.820	2.5
194.7415	22.02	-0.68	77746.180	3.0	129096.300	3.0	194.9583	26.02	-4.30	135705.570	3.0	186998.600	4.0
194.7417	26.01	-2.75	44929.590	2.5	96279.650	2.5	194.9596	26.00	-4.16	888.132	1.0	52180.820	1.0
194.7431	26.02	-1.50											

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
195.0278	10.01	-1.39	254292.190	5	305566.940	1.5	195.3166	26.02	-1.24	83161.480	4.0	134360.400	4.0
195.0295	25.01	-1.10	31661.720	3.0	82936.010	3.0	195.3194	25.01	-2.97	31514.350	4.0	82712.550	3.0
195.0334	26.02	-.68	88923.070	6.0	140196.330	7.0	195.3197	25.01	-2.94	30795.750	4.0	81993.650	4.0
195.0392	23.01	-3.13	12545.150	4.0	63816.900	3.0	195.3198	26.02	-.58	93388.750	4.0	144586.830	5.0
195.0400	26.01	-6.02	8391.920	2.5	59663.450	1.5	195.3201	10.03	-.54	641908.000	5	693106.000	5
195.0570	24.00	-6.16	7593.160	2.0	58860.230	2.0	195.3228	25.01	-.57	55696.500	4.0	106893.800	5.0
195.0577	28.01	-2.68	68735.980	2.5	120002.860	3.5	195.3257	25.01	-4.84	29951.120	1.0	81147.650	2.0
195.0626	27.00	-4.35	1809.330	1.5	53074.920	1.5	195.3271	20.02	-2.15	225826.220	2.0	277022.400	3.0
195.0643	26.00	-4.44	704.003	2.0	51969.140	3.0	195.3318	26.02	-.47	79840.120	7.0	131035.070	7.0
195.0656	24.02	-2.44	66222.700	5.0	117487.500	6.0	195.3326	26.02	-.29	70725.010	3.0	121919.740	3.0
195.0687	24.03	-4.56	182391.000	4.5	233655.000	5.5	195.3326	23.01	-4.06	25191.080	2.0	76385.800	3.0
195.0694	23.01	-7.10	2604.820	1.0	53868.630	2.0	195.3328	24.00	-2.60	7927.470	2.0	59122.150	3.0
195.0714	26.02	-3.69	135735.310	5.0	186998.600	4.0	195.3349	18.01	-3.66	138243.550	1.5	189437.690	1.5
195.0736	24.00	-2.94	8095.210	3.0	59357.900	2.0	195.3405	28.01	-.65	23108.280	2.5	74300.930	1.5
195.0782	25.02	-3.52	91948.300	3.5	143209.800	2.5	195.3469	26.02	-.72	70728.750	4.0	121919.740	3.0
195.0784	23.01	-4.17	13542.680	3.0	64804.130	2.0	195.3472	25.02	-1.72	91906.100	2.5	143097.000	3.5
195.0807	26.02	-3.85	137763.700	5.0	189024.530	5.0	195.3487	26.02	-1.60	83358.880	2.0	134549.380	1.0
195.0812	11.02	-.11	412201.500	5	463462.200	1.5	195.3494	26.02	-.26	79844.740	6.0	131035.070	7.0
195.0827	28.02	-2.00	131792.400	4.0	183052.700	4.0	195.3502	26.02	-.78	83358.880	2.0	134549.380	1.0
195.0866	24.01	-4.19	33418.110	2.5	84577.390	3.5	195.3549	20.02	-1.11	227432.110	1.0	278821.010	1.0
195.0902	25.01	-4.86	29889.310	3.0	81147.650	2.0	195.3626	24.01	-3.38	33418.110	2.5	84604.990	2.5
195.0911	27.02	-.18	56794.800	1.5	108052.900	2.5	195.3669	25.01	-2.02	35004.430	3.0	86190.180	2.0
195.0919	25.01	-.08	55115.800	2.0	106373.700	2.0	195.3674	28.02	-2.09	85834.800	5.0	137020.400	5.0
195.0989	25.01	-3.35	31661.720	3.0	82917.780	2.0	195.3688	25.01	-2.10	29869.110	2.0	81054.350	2.0
195.0991	27.02	-.01	78927.800	3.5	130183.800	3.5	195.3739	25.02	-3.48	121267.320	2.5	172451.230	1.5
195.1007	26.02	-.52	70694.030	5.0	121949.620	5.0	195.3751	25.01	-2.38	30679.240	5.0	81862.860	4.0
195.1062	25.02	-2.97	86654.070	4.5	137908.200	5.5	195.3792	25.01	-1.61	29869.110	2.0	81051.620	3.0
195.1134	26.00	-5.41	415.932	3.0	51668.175	4.0	195.3812	24.02	-3.41	101745.300	3.0	152927.300	3.0
195.1189	25.02	-1.48	84610.530	5	135861.320	1.5	195.3820	26.02	-.36	93388.750	4.0	144370.530	3.0
195.1210	25.02	-3.06	89307.220	5.5	140557.460	4.5	195.3826	23.01	-6.48	2687.010	2.0	53868.630	2.0
195.1212	11.02	-.30	366165.300	2.5	417415.500	1.5	195.3867	26.01	-8.20	23317.600	2.5	74498.150	1.5
195.1246	19.02	-1.79	190916.000	1.5	242165.300	1.5	195.3883	24.00	-1.70	8307.570	4.0	59487.710	4.0
195.1290	26.02	-2.72	137763.700	5.0	189011.840	4.0	195.3890	83.00	1.47	0.000	0.0	51179.954	0.0
195.1324	26.02	-.69	70694.030	5.0	121941.290	4.0	195.3892	25.01	-1.99	33248.320	4.0	84428.210	5.0
195.1362	25.02	-2.79	94397.200	3.5	145643.450	2.5	195.3938	27.02	-.40	47864.800	5	99043.500	1.5
195.1381	18.01	-1.71	158167.710	1.5	209413.480	1.5	195.3945	28.01	-4.51	68965.650	1.5	120144.170	2.5
195.1394	25.01	-2.38	37851.150	3.0	89096.560	4.0	195.3962	26.02	-.29	93392.450	3.0	144570.530	3.0
195.1410	10.03	-.46	642472.000	2.5	693717.000	1.5	195.3962	25.01	-1.53	31760.930	2.0	82939.600	1.0
195.1433	23.03	-.30	96412.100	2.0	147656.500	3.0	195.3968	14.02	-1.03	176487.190	1.0	227665.090	2.0
195.1450	24.01	-3.52	39742.360	2.5	90986.310	3.5	195.3985	8.01	-2.63	206786.340	1.5	257963.800	2.5
195.1489	26.01	-4.80	21812.040	1.5	73054.970	2.5	195.3987	26.02	-3.04	135705.570	3.0	186882.980	3.0
195.1524	25.02	-.24	89052.440	3.5	140294.440	3.5	195.4012	15.00	-4.95	18747.950	1.5	69924.700	2.5
195.1530	26.00	-2.20	704.003	2.0	51945.860	1.0	195.4023	28.01	-2.54	70748.700	5	121925.160	5
195.1551	26.00	-1.47	704.003	2.0	51945.310	2.0	195.4030	26.02	-2.18	73727.640	2.0	124903.920	2.0
195.1593	23.01	-7.49	2687.010	2.0	53927.190	3.0	195.4042	23.01	-6.43	2968.220	4.0	54144.200	4.0
195.1607	25.01	-2.61	14325.860	4.0	65565.680	4.0	195.4048	10.01	-1.51	252798.480	5	303974.290	1.5
195.1649	8.01	-3.20	214229.480	1.5	265468.200	1.5	195.4076	25.01	-1.85	31760.930	2.0	82936.010	3.0
195.1730	10.01	-1.25	251011.180	2.5	302247.780	3.5	195.4127	28.01	-2.42	68735.980	2.5	119909.720	1.5
195.1822	23.01	-2.98	14556.090	4.0	65790.280	4.0	195.4196	26.02	-.32	69836.830	3.0	121008.780	3.0
195.1823	25.00	-2.97	17052.290	4.5	68286.440	4.5	195.4196	15.00	-1.48	18722.650	5	69894.600	1.5
195.1888	20.02	-3.70	227388.560	2.0	278621.010	1.0	195.4231	26.02	-.18	69837.760	2.0	121008.780	3.0
195.1924	28.01	-3.33	1506.940	1.5	52738.450	2.5	195.4262	28.02	-2.08	130312.100	4.0	181482.300	4.0
195.1943	25.01	-4.88	37847.900	2.0	89078.900	2.0	195.4277	56.01	-1.35	21952.422	0.0	73122.241	0.0
195.1947	25.02	-1.58	86051.500	2.5	137282.400	2.5	195.4292	18.01	-1.32	158428.030	5	209597.450	1.5
195.1960	23.02	-2.00	103034.650	4.5	154265.200	3.5	195.4307	25.01	-1.29	31661.720	3.0	82830.750	4.0
195.1965	23.02	-.13	109854.870	3.5	161085.300	4.5	195.4323	26.02	-1.64	132262.660	6.0	183431.280	5.0
195.1968	25.01	-3.52	43850.420	2.0	95080.760	1.0	195.4356	9.02	-3.61	468605.940	4.5	519773.700	4.5
195.1970	8.01	-1.89	203942.210	5	255172.500	1.5	195.4360	9.02	-3.71	468606.050	3.5	519773.700	3.5
195.2027	13.01	-2.84	95348.200	0.0	146577.000	1.0	195.4410	18.01	-3.66	151087.250	2.5	202253.590	1.5
195.2041	25.01	-5.30	29919.220	2.0	81147.650	2.0	195.4446	26.03	-1.78	138841.300	3.5	190006.700	2.5
195.2044	25.02	-2.78	89052.440	3.5	140280.800	4.5	195.4460	25.01	-5.06	29889.310	3.0	81054.350	2.0
195.2067	25.01	-4.42	37851.150	3.0	89078.900	2.0	195.4490	32.00	1.62	483.945	0.0	51648.187	0.0
195.2086	26.02	-2.74	73727.640	2.0	124954.880	1.0	195.4526	26.02	-2.61	88663.870	4.0	139827.170	4.0
195.2096	25.01	-4.94	52373.180	3.0	103600.170	2.0	195.4548	23.02	-1.63	109854.870	3.5	161017.600	3.5
195.2122	23.03	-2.22	100200.700	2.0	151427.000	1.0	195.4564	25.01	-4.28	29889.310	3.0	81051.620	3.0
195.2137	20.02	-1.17	277380.860	2.0	328606.780	2.0	195.4579	25.03	-1.88	120603.100	4.0	171765.000	4.0
195.2153	27.02	-4.38	55729.200	3.5	106954.700	2.5	195.4584	24.01	-2.80	39824.520	4.5	90986.310	3.5
195.2240	28.02	-3.21	82277.000	1.0	133500.200	2.0	195.4609	28.01	-2.67	68154.310	1.5	119315.440	2.5
195.2280	26.02	-1.76	83138.230	5.0	134360.400	4.0	195.4617	26.01	-2.51	13673.210	1.5	64834.120	1.5
195.2280	26.00	-1.64	888.132	1.0	52110.300	1.0	195.4618	29.02	-2.31	85446.400	1.5	136607.300	2.5
195.2329	26.02	-.95	70728.750	4.0	121949.620	5.0	195.4644	25.02	-2.91	144522.300	4.5	195682.500	5.5
195.2332	25.01	-4.06	52379.380	2.0	103600.170	2.0	195.4659	25.01	-2.40	33147.390	5.0	84307.200	4.0
195.2334	25.02	-2.70	85200.760	5.5	136421.500	5.5	195.4667	25.02	-3.11	94906.450	5	160666.070	1.5
195.2353	26.01	-2.47	21430.390	5.5	72650.630	4.5	195.4686	24.02	-3.26	66027.800	4.0	117166.900	5.0
195.2359	25.02	-.09	62988.920	3.5	114209.010	3.5	195.4709	28.01	-1.02	76727.360	5.5	127885.860	4.5
195.2385	26.02	-1.24	89783.590	4.0	141002.990	4.0	195.4744	26.02	-.99	93412.930	2.0	144570.530	3.0
195.2424	28.01	-4.26	70706.770	1.5	121925.160	5	195.4772	26.02	-.34	84159.550	4.0	135316.420	5.0
195.2442	28.02	-1.44	82172.900	3.0	133390.800	3.0	195.4772	25.01	-.77	31760.930			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
195.5475	26.02	-3.12	135316.420	5.0	186454.890	5.0
195.5501	27.02	-0.64	77121.100	4.5	128258.900	5.5
195.5603	25.01	-4.82	29919.220	2.0	81054.350	2.0
195.5621	23.01	-4.10	14655.630	5.0	65790.280	4.0
195.5635	26.01	-1.50	20830.520	2.5	71964.810	2.5
195.5660	25.02	-2.98	121480.240	3.5	172613.870	2.5
195.5672	26.01	-3.49	13673.210	1.5	64806.520	0.5
195.5689	26.00	-1.47	704.003	2.0	51836.870	1.0
195.5703	26.02	-1.40	88694.670	5.0	139827.170	4.0
195.5707	25.01	-5.59	29919.220	2.0	81051.620	3.0
195.5711	25.03	-0.52	119445.500	2.0	170577.800	1.0
195.5714	26.00	-1.78	978.076	0.0	52110.300	1.0
195.5718	24.00	-5.10	7593.160	2.0	58725.280	1.0
195.5765	28.02	-1.88	82194.300	5.0	133325.200	4.0
195.5791	27.02	-0.27	47415.400	2.5	98545.600	3.5
195.5793	15.00	-1.33	18722.650	0.5	69852.800	0.5
195.5813	10.01	-4.25	252798.480	0.5	303928.100	0.5
195.5858	28.01	-4.23	57420.160	2.5	108548.610	1.5
195.5872	25.01	-3.06	30684.810	1.0	81812.900	2.0
195.5902	25.02	-1.70	89052.440	3.5	140179.740	2.5
195.5903	23.02	-1.92	107060.410	0.5	158187.700	0.5
195.5935	24.01	-0.82	34813.060	5.5	85939.500	4.5
195.5937	26.02	-1.24	73727.640	2.0	124854.040	3.0
195.5998	28.00	-1.40	0.000	4.0	51124.800	3.0
195.5999	25.01	-2.71	32787.600	4.0	83912.380	5.0
195.6006	27.02	-0.26	47698.600	1.5	98823.200	2.5
195.6044	26.00	-1.69	704.003	2.0	51827.590	2.0
195.6054	25.01	-3.97	30679.240	5.0	81802.580	6.0
195.6084	26.02	-0.98	83237.860	3.0	134360.400	4.0
195.6114	26.00	-5.35	704.003	2.0	51825.758	3.0
195.6118	26.01	-2.43	21308.080	1.5	72429.740	0.5
195.6183	26.02	-2.17	131710.790	5.0	182830.760	6.0
195.6231	27.01	-1.67	11321.500	2.0	62440.200	1.0
195.6242	23.01	-6.55	2808.760	3.0	53927.190	3.0
195.6281	24.02	-2.50	66027.800	4.0	117145.200	5.0
195.6378	23.01	-4.83	19112.930	4.0	70227.800	5.0
195.6405	26.01	-4.00	22637.190	4.5	73751.340	4.5
195.6449	11.02	-0.62	417415.500	1.5	468528.500	1.5
195.6461	23.01	-4.73	13490.840	2.0	64603.530	3.0
195.6572	12.03	-0.54	545962.100	0.5	597071.900	1.5
195.6586	24.00	-2.61	8307.570	4.0	59417.010	3.0
195.6591	26.02	-0.97	93392.450	3.0	144501.740	2.0
195.6601	24.01	-3.92	39877.280	3.5	90986.310	3.5
195.6624	25.02	-0.30	62568.080	1.5	113676.530	2.5
195.6646	23.02	-3.94	94714.250	0.5	145822.110	1.5
195.6726	26.02	-3.66	73849.100	1.0	124954.880	1.0
195.6754	29.01	-2.77	88605.160	1.0	139710.200	2.0
195.6761	15.00	-1.62	18747.950	1.5	69852.800	0.5
195.6786	26.02	-2.77	138691.810	1.0	189796.030	1.0
195.6786	25.02	-3.06	144311.000	5.5	195415.200	4.5
195.6823	25.01	-6.16	29951.120	1.0	81054.350	2.0
195.6856	9.02	-4.20	440359.260	3.5	491461.650	4.5
195.6924	18.01	-2.71	158167.710	1.5	209268.310	1.5
195.6966	25.01	-3.43	43131.400	2.0	94230.900	2.0
195.6995	9.02	-4.99	440069.510	1.5	491168.250	2.5
195.6997	28.02	-1.02	62606.300	3.0	113705.000	4.0
195.7006	27.01	-2.23	13261.100	2.0	64359.560	3.0
195.7051	22.02	-0.46	78158.710	4.0	129256.000	4.0
195.7124	23.01	-3.71	13490.840	2.0	64586.230	2.0
195.7133	26.02	-0.42	89907.850	4.0	141002.990	4.0
195.7133	26.02	-0.04	89907.850	5.0	141002.990	4.0
195.7146	24.02	-2.12	117487.500	6.0	168582.300	6.0
195.7154	23.02	-1.92	107060.410	0.5	158155.000	1.5
195.7226	26.02	-2.92	138691.810	1.0	189784.520	2.0
195.7257	29.02	-4.11	145353.000	1.5	196444.900	1.5
195.7294	25.01	-1.97	31514.350	4.0	82605.290	4.0
195.7300	9.02	-3.88	468682.910	3.5	519773.700	3.5
195.7300	9.02	-2.34	468682.910	3.5	519773.700	4.5
195.7308	25.01	-2.63	30795.750	4.0	81886.330	5.0
195.7320	9.02	-2.45	468683.430	2.5	519773.700	3.5
195.7340	25.02	-1.96	89204.690	4.5	140294.440	3.5
195.7376	26.02	-0.21	93412.930	2.0	144501.740	2.0
195.7395	24.02	-4.29	43286.400	4.0	94374.700	4.0
195.7434	27.01	-0.73	1597.200	2.0	52684.500	1.0
195.7435	23.01	-4.14	36.050	1.0	51123.310	2.0
195.7475	26.02	-3.87	135705.570	3.0	186791.780	2.0
195.7476	25.02	-0.40	86051.500	2.5	137137.690	1.5
195.7487	8.01	-1.61	206877.900	2.5	257963.800	2.5
195.7528	29.01	-2.21	69704.800	4.0	120789.630	4.0
195.7637	25.02	-2.72	86578.240	3.5	137660.240	3.5
195.7706	26.02	-2.21	84159.550	4.0	135239.740	4.0
195.7767	30.02	-4.07	233610.400	2.0	284689.000	1.0
195.7780	25.02	-3.08	86520.940	2.5	137599.200	3.5
195.7817	26.02	-4.26	128605.650	1.0	179682.940	1.0
195.7835	25.01	-4.03	32856.950	3.0	83933.770	3.0
195.7837	28.01	-3.10	71770.830	2.5	122847.600	3.5
195.7841	26.00	-0.84	0.000	4.0	51076.680	4.0
195.7862	25.02	-2.18	89204.690	4.5	140280.600	4.5
195.7863	24.02	-3.70	65890.900	3.0	116967.000	4.0
195.7868	24.01	-4.42	30156.940	3.5	81232.910	2.5
195.7874	18.02	-1.89	180679.000	1.0	231754.800	0.0
195.7908	25.01	-4.52	32858.840	2.0	83933.770	3.0
195.7913	25.02	-2.22	85346.720	6.5	136421.500	5.5
195.7923	23.01	-3.90	13511.710	1.0	64586.230	2.0
195.7936	26.02	-0.39	93512.640	4.0	144586.630	5.0
195.7951	23.02	-3.02	107165.900	1.5	158239.700	2.5
195.7960	25.01	-4.15	31661.720	3.0	82735.290	2.0
195.7965	14.00	-5.09	6298.850	2.0	57372.297	2.0
195.8009	27.01	-5.11	17771.500	3.0	68843.800	4.0
195.8039	24.02	-2.29	66027.800	4.0	117099.300	4.0
195.8049	26.02	-4.07	128605.650	1.0	179676.890	2.0
195.8074	26.01	-2.44	27620.390	2.5	78690.980	2.5
195.8086	26.01	-2.94	21581.640	4.5	72651.910	3.5
195.8135	26.01	-5.10	21581.640	4.5	72650.630	4.5
195.8144	26.00	-6.00	0.000	4.0	51068.770	5.0
195.8151	20.02	-1.99	277022.400	3.0	328090.990	2.0
195.8208	25.01	-4.94	30795.750	4.0	81862.840	4.0
195.8208	8.01	-2.30	206730.800	0.5	257797.900	1.5
195.8226	26.01	-5.79	18360.650	1.5	69427.270	0.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
195.8310	23.01	-8.68	26870.010	2.0	53751.460	1.0
195.8315	25.02	-1.58	88880.080	2.5	139944.400	3.5
195.8338	26.02	-4.95	135239.740	4.0	186303.440	3.0
195.8340	9.01	-3.62	235642.480	1.0	286706.140	1.0
195.8344	28.01	-2.93	70635.460	2.5	121699.020	1.5
195.8377	28.02	-3.73	82277.000	1.0	133339.700	1.0
195.8384	23.01	-4.60	13741.610	3.0	64804.130	2.0
195.8428	23.02	-2.07	105282.650	2.5	156344.000	1.5
195.8430	28.02	-3.57	79250.800	4.0	130312.100	4.0
195.8448	23.01	-3.63	13542.680	3.0	64603.530	3.0
195.8457	27.01	-5.82	4950.000	2.0	56010.600	2.0
195.8484	19.02	-2.02	238455.100	0.5	289515.000	1.5
195.8485	23.01	-7.55	2808.760	3.0	53866.630	2.0
195.8488	24.00	-6.36	0.000	3.0	51059.790	4.0
195.8523	25.01	-1.58	33248.320	4.0	84307.200	4.0
195.8526	9.01	-2.66	235642.480	1.0	286701.280	2.0
195.8547	24.01	-4.23	33619.130	4.5	84677.390	3.5
195.8552	26.00	-4.91	704.003	2.5	51762.120	2.0
195.8561	26.02	-0.12	93512.640	4.0	144570.530	3.0
195.8567	26.00	-1.98	888.132	1.0	51945.860	1.0
195.8583	25.01	-1.35	35004.430	3.0	86061.750	3.0
195.8585	26.02	-0.29	66464.640	3.0	117521.910	4.0
195.8588	26.00	-1.51	888.132	1.0	51945.860	2.0
195.8611	25.00	-3.67	17282.000	3.5	68336.590	3.5
195.8672	24.03	-2.99	183453.000	5.5	234508.000	6.5
195.8679	26.02	-3.36	73849.100	1.0	124903.920	2.0
195.8702	24.01	-4.55	19798.010	2.5	70852.240	3.5
195.8725	26.00	-1.79	888.132	1.0	51941.760	0.0
195.8731	26.02	-0.04	89697.520	3.0	140750.980	2.0
195.8738	29.01	-2.77	85388.770	2.0	136442.050	3.0
195.8749	24.02	-6.54	43321.700	3.0	94374.700	4.0
195.8764	27.02	-1.87	77472.300	2.5	128524.900	2.5
195.8802	26.02	-2.73	135217.170	1.0	186268.790	2.0
195.8832	25.01	-2.64	31661.720	3.0	82712.550	3.0
195.8833	25.01	-1.56	43131.400	2.0	94182.200	3.0
195.8842	8.01	-4.75	214169.740	0.5	265220.300	1.5
195.8886	24.00	-2.02	7810.820	1.0	58860.230	2.0
195.8902	24.03	-1.17	109950.000	2.5	160999.000	1.5
195.8906	17.01	-2.33	110299.500	2.0	161348.400	1.0
195.8918	25.01	-0.62	38901.800	4.0	89950.400	3.0
195.8967	20.02	-1.54	226333.560	3.0	277380.860	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
196.0881	25.01	-1.21	34761.810	5.0	85759.300	4.0	196.3460	26.02	-0.71	88694.670	5.0	139625.170	4.0
196.0938	24.03	-1.44	109950.000	2.5	160946.000	3.5	196.3483	9.02	-4.55	440202.480	2.5	491132.380	3.5
196.0944	26.02	-3.07	89697.520	3.0	140693.360	3.0	196.3506	28.01	-4.78	68735.980	2.5	119665.290	2.5
196.0956	10.02	-3.85	389069.370	2.0	440064.900	1.0	196.3508	26.01	-4.16	13904.870	0.5	64834.120	1.5
196.0977	11.02	-4.25	367561.900	0.5	418556.900	0.5	196.3517	25.02	-5.59	62747.500	2.5	113676.530	2.5
196.0995	23.01	-3.54	13609.000	4.0	64603.530	3.0	196.3536	25.01	-4.52	27564.900	6.0	78475.430	7.0
196.1044	26.00	-7.14	415.932	3.0	51409.180	4.0	196.3541	25.02	-3.00	144258.500	6.5	195186.900	7.5
196.1078	10.01	-1.60	277325.600	1.5	328317.950	2.5	196.3631	26.00	-1.60	704.003	2.0	51630.070	2.0
196.1082	28.01	-2.53	70706.770	1.5	121699.020	1.5	196.3670	28.01	-3.81	52738.450	2.5	103663.500	1.5
196.1111	23.01	-3.76	13594.730	2.0	64586.230	2.0	196.3725	25.02	-0.27	63285.370	4.5	114209.010	3.5
196.1137	8.01	-3.60	214229.480	1.5	265220.300	2.5	196.3741	27.02	-0.33	56373.800	2.5	107297.000	1.5
196.1141	25.01	-3.77	55759.270	3.0	106750.000	2.0	196.3745	26.02	-1.99	88923.070	6.0	139846.180	6.0
196.1174	26.02	-2.23	136008.740	3.0	186998.600	4.0	196.3753	18.01	-4.57	154181.430	4.5	205104.320	4.5
196.1178	26.02	-3.96	135279.040	2.0	186268.790	2.0	196.3768	24.02	-3.49	66222.700	5.0	117145.200	5.0
196.1194	26.02	-1.51	69836.830	3.0	120826.170	2.0	196.3784	28.02	-1.49	82172.900	3.0	133095.000	3.0
196.1200	28.01	-4.07	55018.710	2.5	106007.890	2.5	196.3788	10.03	-0.93	642184.000	1.5	693106.000	0.5
196.1203	23.02	-1.63	107165.900	1.5	158155.000	1.5	196.3811	26.02	-2.70	138103.120	4.0	189024.530	5.0
196.1230	26.02	-0.29	69837.760	2.0	120826.170	2.0	196.3846	11.02	0.29	444748.100	1.5	495668.600	2.5
196.1247	26.00	-1.12	704.003	2.0	51691.980	3.0	196.3854	28.01	-4.84	68735.980	2.5	119656.250	3.5
196.1292	27.00	-3.97	1809.330	1.5	52796.130	2.5	196.3864	28.00	-1.29	204.786	3.0	51124.800	3.0
196.1344	18.01	-1.45	158428.030	0.5	209413.480	1.5	196.3865	8.01	-1.11	206877.900	2.5	257797.900	1.5
196.1346	28.02	-2.45	82172.900	3.0	133158.300	3.0	196.3869	25.01	-3.72	43311.000	1.0	94230.900	2.0
196.1363	25.01	-1.88	30795.750	4.0	81780.700	3.0	196.3900	18.01	-2.83	154181.430	4.5	205100.530	5.5
196.1373	25.01	-1.67	35004.430	3.0	85989.120	2.0	196.3991	26.02	-0.32	79840.120	7.0	130756.840	6.0
196.1400	32.00	1.75	7017.204	0.0	58001.195	0.0	196.4040	26.02	-0.05	90483.590	3.0	141399.040	2.0
196.1439	26.01	-3.77	8680.470	1.5	59663.450	1.5	196.4052	26.00	-1.47	704.003	2.0	51619.140	3.0
196.1440	26.02	-0.43	90483.590	3.0	141466.530	3.0	196.4079	24.00	-1.56	7810.820	1.0	58725.260	1.0
196.1457	27.02	-0.35	79425.300	2.5	130407.800	2.5	196.4080	23.01	-3.65	208.890	3.0	51123.310	2.0
196.1500	23.01	-6.58	3162.800	5.0	54144.200	4.0	196.4144	21.01	-4.58	4802.750	2.0	55715.520	1.0
196.1563	29.01	-3.17	69704.800	4.0	120684.550	3.0	196.4170	26.02	0.39	79844.740	6.0	130756.840	6.0
196.1587	23.01	-3.79	106.630	2.0	51085.770	3.0	196.4177	25.01	-1.63	34761.810	5.0	85673.720	4.0
196.1732	26.02	-0.40	90423.680	2.0	141399.040	2.0	196.4260	26.02	0.05	89783.590	4.0	140693.360	3.0
196.1763	10.01	-1.87	252953.540	1.5	303928.100	0.5	196.4283	23.02	-2.39	56256.750	1.5	107165.900	1.5
196.1765	24.00	-1.00	7750.780	0.0	58725.280	1.0	196.4285	26.02	-1.24	84369.920	2.0	135279.040	2.0
196.1771	25.01	-4.24	31760.930	2.0	82735.290	2.0	196.4287	18.01	-2.68	157233.930	3.5	208142.990	3.5
196.1791	10.01	-1.42	277344.290	2.5	328318.120	3.5	196.4293	26.02	-0.42	69788.190	1.0	120697.100	1.0
196.1798	10.01	-2.68	277344.290	2.5	328317.950	2.5	196.4300	26.02	-2.67	138103.120	4.0	189011.840	4.0
196.1801	25.02	-1.50	89307.220	5.5	140280.800	4.5	196.4328	29.02	-1.94	86133.000	0.5	137041.600	0.5
196.1867	25.01	-2.01	14593.820	3.0	65565.680	4.0	196.4339	26.01	-3.23	21711.890	3.5	72619.610	2.5
196.1941	26.02	-2.40	138054.590	5.0	189024.530	5.0	196.4353	8.01	-1.50	206786.340	1.5	257693.700	0.5
196.1947	28.01	-2.68	58705.950	1.5	109675.720	0.5	196.4384	26.02	-1.41	83358.880	2.0	134265.420	2.0
196.1966	29.01	-2.41	88362.030	2.0	139331.300	3.0	196.4401	38.01	-0.99	23715.190	0.0	74621.290	0.0
196.2024	26.00	-1.51	978.076	0.0	51945.860	1.0	196.4439	25.01	-1.66	31514.350	4.0	82419.480	3.0
196.2052	25.02	0.52	97239.860	6.5	148206.900	5.5	196.4443	26.01	-3.47	21308.080	1.5	72213.100	0.5
196.2079	26.01	-6.07	22637.190	4.5	73603.530	5.5	196.4451	25.03	-0.60	119961.500	3.0	170866.300	2.0
196.2110	26.00	-0.85	415.932	3.0	51381.480	4.0	196.4492	10.01	-2.59	251522.120	1.5	302425.870	1.5
196.2146	12.02	-1.06	479456.000	1.0	530420.600	1.0	196.4513	25.03	-1.61	137853.000	4.0	188756.200	3.0
196.2161	18.01	-1.01	145668.800	1.5	196633.020	2.5	196.4536	27.00	-5.31	0.000	4.5	50902.610	4.5
196.2162	24.02	-1.04	66222.700	5.0	117186.900	5.0	196.4544	26.02	-2.55	83646.980	1.0	134549.380	1.0
196.2174	26.02	-2.54	131445.030	2.0	182408.910	3.0	196.4558	28.01	-2.40	53601.190	1.5	104503.220	2.5
196.2212	8.01	-1.53	206730.800	0.5	257693.700	0.5	196.4573	26.01	-2.88	13904.870	0.5	64806.520	0.5
196.2229	25.02	-4.37	84981.630	3.5	135944.080	4.5	196.4618	26.02	-2.60	135554.410	4.0	186454.890	5.0
196.2268	26.01	-3.25	32909.870	5.5	83871.310	4.5	196.4618	20.02	0.09	277022.400	3.0	327922.870	2.0
196.2273	26.02	-0.87	88663.870	4.0	139625.170	4.0	196.4623	18.01	-3.10	154203.970	3.5	205104.320	4.5
196.2274	8.01	-0.87	207002.520	3.5	257963.800	2.5	196.4642	26.02	-2.49	137209.730	4.0	188109.580	3.0
196.2363	23.01	-6.99	2968.220	4.0	53927.190	3.0	196.4645	24.01	-4.18	35607.600	3.5	86507.380	2.5
196.2429	26.02	-3.58	138054.590	5.0	189011.840	4.0	196.4691	28.02	-0.35	71383.700	2.0	122282.300	2.0
196.2574	10.01	-4.03	251522.120	1.5	302475.610	0.5	196.4693	25.01	-1.73	38901.800	4.0	89800.340	4.0
196.2579	24.01	-4.47	19631.280	1.5	70584.640	2.5	196.4706	28.02	-1.78	63472.600	2.0	114370.800	2.0
196.2593	8.01	-4.00	203942.210	0.5	254895.200	1.5	196.4768	27.02	-1.28	77121.100	4.5	128017.700	3.5
196.2616	13.01	-1.02	95546.800	3.0	146499.200	4.0	196.4775	26.02	0.05	79860.420	5.0	130756.840	6.0
196.2646	25.01	-3.69	13740.930	2.0	82712.550	3.0	196.4787	28.02	-2.03	132156.600	4.0	183052.700	4.0
196.2669	26.01	-3.14	13474.430	2.5	64425.460	2.5	196.4871	8.01	-4.54	208392.270	1.5	259286.200	2.5
196.2670	13.01	-2.46	95546.800	3.0	146497.800	3.0	196.4911	25.02	-2.30	144522.300	4.5	195419.200	4.5
196.2678	27.02	-1.82	77472.300	2.5	128423.100	1.5	196.4928	26.02	-1.77	132564.710	5.0	183457.150	4.0
196.2692	24.00	-6.42	0.000	3.0	50950.420	3.0	196.4930	28.02	-3.43	154170.600	3.0	205063.000	2.0
196.2696	28.01	-3.83	70748.700	0.5	121699.020	1.5	196.4931	26.02	-2.56	135990.620	4.0	186882.980	3.0
196.2712	13.01	-1.55	95547.900	2.0	146497.800	3.0	196.4947	25.02	-1.50	89052.440	3.5	139944.400	3.5
196.2712	13.01	-3.63	95546.800	3.0	146496.700	2.0	196.4953	25.01	-2.51	43339.100	2.0	94230.900	2.0
196.2720	26.02	-0.39	69747.400	0.0	120697.100	1.0	196.5017	24.00	-7.64	0.000	3.0	50890.150	2.0
196.2733	26.00	-6.47	415.932	3.0	51365.300	3.0	196.5042	11.02	0.69	410987.900	3.5	461877.400	4.5
196.2736	13.01	-2.19	95348.200	0.0	146297.500	1.0	196.5067	25.01	-4.54	14593.820	3.0	65482.660	3.0
196.2755	13.01	-2.09	95547.900	2.0	146496.700	2.0	196.5072	26.00	-4.84	415.932	3.0	51304.650	4.0
196.2757	26.00	-1.85	888.132	1.0	51836.870	1.0	196.5095	25.02	-2.06	84981.630	3.5	135869.760	3.5
196.2774	18.02	-1.19	180679.000	1.0	231627.300	1.0	196.5136	25.00	-3.55	17451.520	2.5	68338.590	3.5
196.2779	25.01	-1.93	35004.430	3.0	85952.600	3.0	196.5154	30.02	-3.98	234866.900	1.0	285753.500	2.0
196.2784	25.01	-2.51	55759.270	3.0	106707.300	4.0	196.5311	26.02	0.13	84671.870	3.0	135554.410	4.0
196.2789	13.01	-1.36	95548.800	1.0	146496.700								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
196.6247	14.03	-4.41	276503.670	5	327361.970	1.5	196.9647	26.01	-2.47	21581.640	4.5	72352.170	3.5
196.6266	26.02	-4.35	135739.470	6.0	186597.300	6.0	196.9658	25.01	-3.90	39826.570	1.0	90596.800	2.0
196.6329	11.02	-1.42	367561.900	5	418418.100	1.5	196.9676	25.01	-4.99	27570.950	5.0	78340.720	6.0
196.6365	29.01	-1.86	88362.030	2.0	139217.300	2.0	196.9687	28.02	-2.55	79143.300	2.0	129912.800	2.0
196.6452	24.03	-4.36	182391.000	4.5	233244.000	4.5	196.9718	26.02	-1.53	88694.670	5.0	139463.360	5.0
196.6474	26.02	-3.54	183103.120	4.0	188955.560	3.0	196.9759	26.02	-2.56	138187.930	3.0	188955.560	3.0
196.6612	25.01	-1.63	34910.430	4.0	85759.300	4.0	196.9802	25.01	-3.07	55759.270	3.0	106525.800	3.0
196.6646	18.01	-3.45	139258.250	5	190106.230	1.5	196.9860	26.02	-1.39	136117.940	2.0	186882.980	3.0
196.6673	27.02	-1.05	77411.600	5.5	128258.900	5.5	196.9860	24.00	-2.30	8095.210	3.0	58860.230	2.0
196.6675	26.02	-1.97	84369.920	2.0	135217.170	1.0	196.9862	25.01	-1.70	33147.390	5.0	83912.380	5.0
196.6740	26.02	-1.37	88663.870	4.0	139509.440	5.0	196.9888	28.02	-3.08	133095.000	3.0	183859.300	3.0
196.6776	23.01	-5.00	13741.610	3.0	64586.230	2.0	196.9927	25.01	-0.56	34910.430	4.0	85673.720	4.0
196.6780	10.01	-4.82	251011.180	2.5	301855.710	2.5	196.9974	11.02	-0.67	412201.500	5	462963.600	1.5
196.6816	11.02	-1.09	444825.000	2.5	495668.600	2.5	196.9998	25.02	-1.47	86520.940	2.5	137262.400	2.5
196.6835	25.01	-2.53	43339.100	2.0	94182.200	3.0	197.0053	26.02	-2.74	138264.470	6.0	189024.530	5.0
196.6944	29.02	-3.59	146533.600	4.5	197373.900	3.5	197.0055	27.02	0.31	55729.200	3.5	106489.200	3.5
196.6944	18.01	-2.22	158428.030	5	209268.310	1.5	197.0079	26.02	-4.65	128917.510	2.0	179676.890	2.0
196.6945	16.01	-3.96	114162.200	5	165002.450	1.5	197.0113	27.02	-1.41	79425.300	2.5	130183.800	3.5
196.6987	26.02	-4.78	131991.580	7.0	182830.760	6.0	197.0142	25.01	-0.98	31661.720	3.0	82419.480	3.0
196.6991	25.00	-4.94	17052.290	4.5	67891.360	3.5	197.0158	18.02	-2.72	231341.800	2.0	282099.140	2.0
196.7063	25.02	-4.51	86051.500	2.5	136888.700	1.5	197.0196	18.01	-3.73	154181.430	4.5	204937.800	4.5
196.7105	23.02	0.02	110181.470	2.5	161017.600	3.5	197.0227	26.02	-0.80	89697.520	3.0	140453.100	3.0
196.7122	30.02	-4.38	234576.000	4.0	285411.700	3.0	197.0260	32.00	1.69	1371.178	0.0	51225.901	0.0
196.7187	24.03	0.47	127202.000	4.5	178036.000	4.5	197.0330	56.01	-2.11	21952.422	0.0	72705.342	0.0
196.7195	25.03	-4.81	197554.800	2.0	248388.600	3.0	197.0356	26.01	-2.78	13673.210	1.5	64425.460	2.5
196.7286	26.01	-3.90	21430.390	5.5	72261.830	5.5	197.0410	25.02	-1.91	84981.630	3.5	135732.500	4.5
196.7297	9.02	-2.83	344436.960	5	395268.130	1.5	197.0459	13.01	-4.23	95547.900	2.0	146297.500	1.0
196.7351	26.02	0.52	117950.320	4.0	168780.100	5.0	197.0481	26.02	-3.93	135554.410	4.0	186303.440	3.0
196.7369	25.01	-1.38	55696.500	4.0	106525.800	3.0	197.0494	13.01	-4.71	95548.800	1.0	146297.500	1.0
196.7417	24.01	-4.80	20024.180	3.5	70852.240	3.5	197.0495	29.01	-1.96	22846.970	2.0	73595.640	1.0
196.7432	26.01	-3.04	15844.710	4.5	66672.390	3.5	197.0501	26.02	-2.75	151534.130	3.0	202282.650	2.0
196.7452	28.01	-4.83	79923.880	4.5	130751.030	5.5	197.0531	26.02	-2.96	151534.900	2.0	202282.650	2.0
196.7500	24.01	-5.36	21822.860	2.5	72648.790	3.5	197.0555	18.01	-3.99	154203.970	3.5	204951.090	3.5
196.7554	26.02	-4.49	135554.410	4.0	186378.940	4.0	197.0564	11.02	-1.01	414281.000	2.5	465027.900	1.5
196.7567	25.01	-1.78	34910.430	4.0	85734.620	3.0	197.0577	23.01	-3.58	339.210	4.0	51085.770	3.0
196.7629	26.01	-2.15	27314.930	3.5	78137.530	3.5	197.0591	28.02	-2.49	84604.800	1.0	135351.000	2.0
196.7722	26.00	-5.50	888.132	1.0	51708.330	2.0	197.0600	26.02	-3.58	151536.680	1.0	202282.650	2.0
196.7746	26.02	-4.43	93512.640	4.0	144332.210	4.0	197.0633	25.02	-0.88	86051.500	2.5	136796.610	2.5
196.7749	27.02	-1.96	78927.800	3.5	129747.300	2.5	197.0658	26.01	-2.13	15844.710	4.5	66589.170	4.5
196.7807	24.03	-3.41	127218.000	3.5	178036.000	4.5	197.0665	24.02	-0.43	66222.700	5.0	116967.000	4.0
196.7857	26.01	-4.05	88464.760	5	59663.450	1.5	197.0678	26.02	-4.33	128917.510	2.0	179661.480	3.0
196.7858	26.02	-2.20	84159.550	4.0	134976.220	3.0	197.0703	25.02	-1.02	85200.760	5.5	135944.080	4.5
196.7928	20.02	0.13	272188.700	1.0	323003.560	1.0	197.0723	24.02	-5.12	43286.400	4.0	94029.200	3.0
196.7931	11.02	-1.28	415173.200	1.5	465988.000	5	197.0752	26.01	-8.26	18360.650	1.5	69102.690	2.5
196.7932	26.02	-2.13	88694.670	5.0	139509.440	5.0	197.0756	26.00	-6.24	888.132	1.0	51630.070	2.0
196.7936	18.01	-4.95	154181.430	4.5	204996.090	3.5	197.0800	50.00	1.48	1613.150	0.0	52353.966	0.0
196.7939	24.00	-3.25	8307.570	4.0	59122.150	3.0	197.0829	26.02	-2.53	70728.750	4.0	121466.820	5.0
196.7950	28.02	-3.16	79143.300	2.0	129957.600	1.0	197.0843	25.02	-2.14	89204.690	4.5	139947.400	3.5
196.7984	26.02	-3.25	136185.170	5.0	186998.600	4.0	197.0854	23.01	-3.90	36.050	1.0	50775.470	2.0
196.7994	29.01	-1.44	66418.520	2.0	117231.690	1.0	197.0878	23.01	-4.02	0.000	0.0	50738.620	1.0
196.8039	26.01	-1.96	13474.430	2.5	64286.440	3.5	197.0928	26.02	-4.85	131035.070	7.0	181772.590	6.0
196.8093	28.02	-1.74	79143.300	2.0	129953.900	3.0	197.0944	25.01	-2.93	43131.400	2.0	93866.500	1.0
196.8211	26.01	-2.56	21812.040	1.5	72619.610	2.5	197.1021	26.01	-3.14	21308.080	1.5	72043.210	1.5
196.8268	27.01	-6.71	5204.500	1.0	56010.600	2.0	197.1127	18.01	-1.61	159393.310	1.5	210125.700	2.5
196.8271	28.02	-1.44	83033.800	2.0	133839.800	1.0	197.1213	25.01	-0.69	35004.430	3.0	85734.620	3.0
196.8271	24.03	-1.48	110700.000	3.5	161506.000	2.5	197.1232	13.01	-2.33	95546.800	3.0	146276.500	3.0
196.8295	25.02	-0.93	89052.440	3.5	139857.840	4.5	197.1275	13.01	-1.43	95547.900	2.0	146276.500	3.0
196.8362	26.02	-1.58	137209.730	4.0	188013.400	4.0	197.1287	25.02	-0.16	84981.630	3.5	135709.900	2.5
196.8362	23.02	-2.13	56256.750	1.5	107060.410	5	197.1295	25.01	-2.61	33147.390	5.0	83875.460	4.0
196.8411	25.02	-1.65	144880.100	5.5	195682.500	5.5	197.1298	27.02	-4.36	123123.100	1.5	173851.100	5
196.8426	16.01	-3.71	114200.450	1.5	165002.450	1.5	197.1298	27.02	-4.36	123123.100	1.5	173851.100	5
196.8428	8.01	-3.92	208484.240	2.5	259286.200	2.5	197.1298	27.02	-4.57	123123.100	1.5	173851.100	5
196.8524	26.02	0.32	88663.870	4.0	139463.360	5.0	197.1302	26.02	-2.05	93388.750	4.0	144116.640	3.0
196.8524	26.02	-3.02	151534.900	2.0	202334.390	1.0	197.1340	26.02	-1.58	84369.920	2.0	135096.840	3.0
196.8536	23.01	-2.52	19112.930	4.0	69912.100	4.0	197.1383	25.01	-2.48	31661.720	3.0	82387.530	3.0
196.8563	26.02	-1.17	136200.130	3.0	186998.600	4.0	197.1407	25.02	-2.92	144311.000	5.5	195036.200	6.5
196.8582	26.02	-3.39	132659.170	4.0	183457.150	4.0	197.1407	30.02	-1.62	234866.900	1.0	285592.100	2.0
196.8589	24.00	-0.72	7927.470	2.0	58725.280	1.0	197.1411	24.02	-5.85	43304.100	2.0	94029.200	3.0
196.8593	26.02	-2.96	151536.680	1.0	202334.390	1.0	197.1446	26.02	-1.11	93392.450	3.0	144116.640	3.0
196.8600	26.02	-1.85	132659.170	4.0	183456.690	3.0	197.1453	24.03	-0.87	127202.000	4.5	177926.000	3.5
196.8608	18.01	-4.12	138243.550	1.5	189040.870	1.5	197.1471	22.01	-1.34	8744.270	2.5	59467.810	3.5
196.8623	26.02	-0.25	92523.910	5.0	143320.850	6.0	197.1488	23.03	-1.10	96412.100	2.0	147135.200	2.0
196.8640	26.02	-3.33	151537.910	0.0	202334.390	1.0	197.1502	25.02	-1.78	144959.740	4.5	195682.500	5.5
196.8673	25.02	-3.45	86486.770	1.5	137282.400	2.5	197.1523	12.02	-0.82	479456.000	1.0	530178.200	2.0
196.8743	25.01	-5.12	27546.900	6.0	78340.720	6.0	197.1619	10.01	-2.77	252798.480	5	303518.210	1.5
196.8783	25.02	-1.31	94850.660	1.5	145643.450	2.5	197.1623	26.02	-2.73	137423.000	3.0	188142.640	2.0
196.8788	25.02	-0.72	85077.090	4.5	135869.760	3.5	197.1625	26.02	-3.58	135735.310	5.0	186454.890	5.0
196.8835	26.02	-3.77	149013.360										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
197.2624	17.01	-2.16	131754.800	1.0	182448.700	2.0	197.5721	25.01	-3.89	55759.270	3.0	106373.700	2.0
197.2639	26.02	-2.20	93392.450	3.0	144085.970	4.0	197.5737	26.00	-6.01	0.000	4.0	50614.020	4.0
197.2821	20.02	-2.97	226333.560	3.0	277022.400	3.0	197.5759	23.02	-3.54	49327.740	2.5	99941.200	3.5
197.2836	26.02	-3.50	149013.360	4.0	199701.820	3.0	197.5774	26.01	-3.53	13474.430	2.5	64087.500	2.5
197.2869	25.02	-4.54	62988.920	3.5	113676.530	2.5	197.5781	27.02	-2.50	77472.300	2.5	128085.200	2.5
197.2875	25.02	-4.89	85173.880	1.5	135861.320	1.5	197.5811	29.01	-2.95	88605.160	1.0	139217.300	2.0
197.2909	26.02	-1.76	137423.000	3.0	188109.580	3.0	197.5843	22.01	-1.51	8710.470	1.5	59321.790	2.5
197.2936	25.01	-3.01	34761.810	5.0	85447.700	5.0	197.5846	27.00	-4.17	0.000	4.5	50611.220	3.5
197.2941	24.01	-5.18	19631.280	1.5	70317.040	2.5	197.5914	24.00	-7.00	7593.160	2.0	58202.650	3.0
197.2953	25.01	-2.80	33248.320	4.0	83933.770	3.0	197.5919	25.00	-4.56	17282.000	3.5	67891.360	3.5
197.2967	25.02	-3.10	85173.880	1.5	135858.960	2.5	197.5987	27.00	-3.44	1406.840	2.5	52014.450	1.5
197.3038	18.01	-2.82	158730.210	2.5	209413.480	1.5	197.6005	26.02	-1.68	84671.870	3.0	135279.040	2.0
197.3039	28.01	-2.14	67880.160	2.5	118563.390	3.5	197.6039	26.02	-2.11	84369.920	2.0	134976.220	3.0
197.3053	25.00	-4.79	17282.000	3.5	67964.870	2.5	197.6072	28.01	-3.39	70635.460	2.5	121240.900	3.5
197.3054	26.02	-2.81	136200.130	3.0	186882.980	3.0	197.6093	17.01	-2.45	131767.400	0.0	182372.300	1.0
197.3056	24.01	-4.78	25033.950	3.5	75716.740	3.5	197.6117	17.01	-2.08	131768.000	2.0	182372.300	1.0
197.3070	28.01	-2.75	70635.460	2.5	121317.890	3.5	197.6124	27.01	-2.90	13261.100	2.0	63865.200	1.0
197.3126	10.03	-7.75	643672.000	1.5	694353.000	2.5	197.6128	26.02	-1.68	93512.640	4.0	144116.640	3.0
197.3138	17.01	-1.86	131768.000	2.0	182448.700	2.0	197.6131	26.02	-0.84	64646.640	3.0	117068.560	3.0
197.3158	26.01	-3.21	21581.640	4.5	72261.830	5.5	197.6160	9.02	-4.85	418185.420	2.5	466788.600	2.5
197.3165	27.01	-6.49	10708.100	3.0	61388.100	4.0	197.6175	25.01	-1.51	31514.350	4.0	82117.160	5.0
197.3239	23.01	-7.07	13609.000	4.0	64287.100	5.0	197.6266	25.01	-1.64	30679.240	5.0	81279.710	4.0
197.3243	29.02	-4.84	144875.200	1.5	195553.200	2.5	197.6316	17.02	-2.94	204541.200	2.5	255140.400	2.5
197.3283	26.01	-4.24	36252.960	2.5	86929.920	3.5	197.6360	18.01	-2.34	158167.710	1.5	208765.770	5.0
197.3314	18.02	-2.90	188517.320	1.0	239193.480	1.0	197.6361	26.02	-2.19	137544.600	2.0	188142.640	2.0
197.3393	25.02	-3.05	145008.360	6.5	195682.500	5.5	197.6368	26.02	-3.27	135705.570	3.0	186303.440	3.0
197.3399	11.05	-1.73	996734.000	3.0	1047408.000	2.0	197.6381	25.02	-2.14	144817.680	3.5	195415.200	4.5
197.3405	26.02	-3.11	136117.940	2.0	186791.780	2.0	197.6394	25.02	-4.65	144311.000	5.5	194908.200	5.5
197.3406	25.03	-0.84	120603.100	4.0	171276.900	3.0	197.6399	25.01	-2.06	33278.390	3.0	83875.460	4.0
197.3423	26.02	-2.46	135705.570	3.0	186378.940	4.0	197.6401	14.02	-4.21	176487.190	1.0	227084.210	2.0
197.3461	26.03	-1.82	138841.300	3.5	189513.700	4.5	197.6456	11.02	-1.15	415173.200	1.5	465768.060	2.5
197.3485	26.02	-2.64	132785.360	4.0	183457.150	4.0	197.6486	25.02	-0.61	89307.220	5.5	139902.000	5.5
197.3503	26.02	-3.37	132785.360	4.0	183456.690	3.0	197.6497	26.02	-1.94	97041.380	3.0	147635.950	3.0
197.3566	24.01	-5.13	25047.040	2.5	75716.740	3.5	197.6516	26.02	-3.03	136117.940	2.0	186712.020	1.0
197.3573	26.02	-2.92	89783.590	4.0	140453.100	3.0	197.6519	14.02	-4.50	176487.190	1.0	227081.190	1.0
197.3582	25.01	-2.11	35004.430	3.0	85673.720	4.0	197.6543	27.00	-3.62	0.000	4.5	50593.380	4.5
197.3584	25.01	-2.22	38901.800	4.0	89571.030	3.0	197.6584	28.01	-2.60	70635.460	2.5	121227.800	2.5
197.3591	26.02	-3.54	131710.790	5.0	182379.860	5.0	197.6611	26.02	-2.93	136200.130	3.0	186791.780	2.0
197.3600	23.01	-4.64	106.630	2.0	50775.470	2.0	197.6613	11.02	-0.30	443261.600	5.0	493853.200	1.5
197.3671	27.02	-1.01	76791.100	1.5	127458.100	1.5	197.6632	23.01	-0.85	18353.890	3.0	68945.000	3.0
197.3695	26.02	-3.15	151534.130	3.0	202200.510	3.0	197.6632	17.02	-4.02	204021.600	5.0	254612.700	1.5
197.3704	29.01	-2.15	88362.030	2.0	139028.200	2.0	197.6660	26.02	-2.25	137423.000	3.0	188013.400	4.0
197.3725	26.02	-4.34	151534.900	2.0	202200.510	3.0	197.6673	28.01	-3.80	55417.830	3.5	160007.890	2.5
197.3769	27.02	-0.55	78927.800	3.5	129592.300	4.5	197.6699	25.02	-4.40	144311.000	5.5	194900.400	5.5
197.3786	25.01	-2.29	33248.320	4.0	83912.380	5.0	197.6699	26.02	-0.87	132262.660	6.0	182852.050	7.0
197.3835	18.02	-1.02	180679.000	1.0	231341.800	2.0	197.6747	23.01	-4.08	13542.680	3.0	64130.840	4.0
197.3838	26.02	-2.43	151537.800	4.0	202200.510	3.0	197.6753	25.01	-3.54	32787.600	4.0	83375.600	3.0
197.3893	26.00	-5.63	704.003	2.0	51365.300	3.0	197.6765	18.01	-0.94	144709.910	5.0	195297.610	1.5
197.3915	26.00	-2.80	415.932	3.0	51076.680	4.0	197.6789	26.02	-2.54	137544.600	2.0	188131.700	1.0
197.4000	25.01	-1.75	31760.930	2.0	82419.480	3.0	197.6798	26.00	-5.95	0.000	4.0	50586.857	3.0
197.4004	18.02	-3.58	231341.800	2.0	282000.260	1.0	197.6817	26.02	-0.51	88923.070	6.0	139509.440	5.0
197.4043	26.00	-6.37	704.003	2.0	51361.460	3.0	197.6820	9.02	-3.57	416185.420	2.5	466771.720	3.5
197.4059	23.01	-3.46	25191.080	2.0	75848.130	3.0	197.6852	25.01	-1.90	31514.350	4.0	82099.820	4.0
197.4071	26.01	-3.80	21308.080	1.5	71964.810	2.5	197.6882	28.00	-0.02	204.786	3.0	50789.500	4.0
197.4123	25.02	-0.62	85077.090	4.5	135732.500	4.5	197.6945	17.01	-2.39	131754.800	1.0	182337.900	0.0
197.4124	25.01	-1.88	33278.390	3.0	83933.770	3.0	197.6948	25.01	-3.26	53017.160	1.0	103600.170	2.0
197.4137	24.01	-3.53	20024.180	3.5	70679.220	4.5	197.7001	26.02	-3.53	137527.920	4.0	188109.580	3.0
197.4139	24.03	-4.32	183453.000	5.5	234108.000	5.5	197.7006	26.02	-2.18	137561.100	1.0	188142.640	2.0
197.4148	24.00	-5.37	0.000	3.0	50654.760	2.0	197.7017	20.02	-1.04	277380.860	2.0	327962.110	1.0
197.4211	25.02	-1.18	89204.690	4.5	139857.840	4.5	197.7031	27.02	-0.02	56373.840	2.5	106954.700	2.5
197.4290	23.01	-1.59	18293.870	2.0	68945.000	3.0	197.7041	29.01	-2.05	72724.000	2.0	123304.630	1.0
197.4298	25.02	-0.89	86486.770	1.5	137137.690	1.5	197.7045	24.01	-4.36	54784.670	3.5	105365.200	4.5
197.4345	25.02	-3.53	144258.500	6.5	194908.200	5.5	197.7053	25.02	-0.72	85200.760	5.5	135781.090	5.5
197.4350	10.02	-1.04	389058.240	1.0	439707.810	1.0	197.7068	7.01	-4.44	170666.230	0.0	21246.170	1.0
197.4452	18.01	-3.36	158730.210	2.5	209377.170	2.5	197.7087	28.01	-3.87	68735.980	2.5	119315.440	2.5
197.4462	18.01	-0.86	145668.800	1.5	196315.510	2.5	197.7113	11.02	-0.04	442710.500	1.5	493289.300	1.5
197.4477	26.01	-2.24	20340.360	5.5	70986.690	6.5	197.7116	27.00	-3.40	0.000	4.5	50578.730	3.5
197.4493	26.02	-3.78	132785.360	4.0	183431.280	5.0	197.7163	22.01	-2.17	8744.270	2.5	59321.790	2.5
197.4513	28.02	-1.32	82172.900	3.0	132818.300	2.0	197.7194	26.02	-2.60	151757.670	2.0	202334.390	1.0
197.4582	26.02	-3.69	135735.310	5.0	186378.940	4.0	197.7206	18.01	-1.75	157673.320	2.5	208249.740	1.5
197.4649	25.02	-4.52	144258.500	6.5	194900.400	5.5	197.7227	26.02	-2.19	86847.110	2.0	137423.000	3.0
197.4667	26.01	-4.20	36126.410	1.5	86767.670	2.5	197.7327	26.02	-1.36	93512.640	4.0	144085.970	4.0
197.4677	24.02	-1.72	65890.900	3.0	116532.100	3.0	197.7329	26.02	-2.61	97041.380	3.0	147614.650	2.0
197.4685	24.03	-4.22	183453.000	5.5	234094.000	4.5	197.7400	18.01	-4.85	144709.910	5.0	195281.380	5.0
197.4713	26.01	-5.45	21711.890	3.5	72352.170	3.5	197.7434	26.02	-2.77	137561.100	1.0	188131.700	1.0
197.4739	12.02	-0.26	536152.000	1.0	586791.600	2.0	197.7443	23.02	-2.63	105282.650	2.5	155653.000	2.5
197.4784	10.02	-0.83	389069.370	2.0	439707.810	1.0	197.7447	23.01	-4.63	11514.760	1.0	62065.020	2.0
197.4820	25.01	-1.05	30										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
197.8161	27.01	-2.98	10708.100	3.0	61260.100	2.0	198.0739	27.02	-2.90	123123.100	1.5	173609.300	1.5
197.8215	25.02	-3.39	89307.220	5.5	139857.840	4.5	198.0739	27.02	-2.90	123123.100	1.5	173609.300	1.5
197.8267	29.02	-1.79	142819.700	3.5	193369.000	4.5	198.0739	27.02	-4.35	123123.100	1.5	173609.300	1.5
197.8269	9.02	-4.26	440582.120	4.5	491131.370	4.5	198.0747	25.01	-4.19	43696.190	3.0	94182.200	3.0
197.8286	26.01	-4.50	21581.640	4.5	71230.440	4.5	198.0768	26.02	-3.89	137527.920	4.0	188013.400	4.0
197.8309	26.02	-2.67	137561.100	1.0	188109.320	0.0	198.0781	26.00	-4.77	415.932	3.0	50901.060	2.0
197.8318	26.02	-4.93	132262.660	6.0	182810.660	5.0	198.0798	28.00	-1.74	204.786	3.0	50689.490	2.0
197.8332	26.02	-2.61	70694.030	5.0	121241.670	4.0	198.0827	25.01	-1.82	30795.750	4.0	81279.710	4.0
197.8404	27.00	-3.96	1809.330	1.5	52355.120	5.5	198.0829	23.01	-6.04	13542.680	3.0	64026.600	4.0
197.8411	26.02	-6.7	66522.950	2.0	117068.560	3.0	198.0904	28.02	-1.51	81686.900	6.0	132168.900	6.0
197.8419	27.02	-2.21	77472.300	2.5	128017.700	3.5	198.0927	23.02	-2.59	105320.180	1.5	155801.600	1.5
197.8425	26.02	-1.60	89907.850	4.0	140453.100	3.0	198.0951	11.02	-8.3	442710.500	1.5	493191.300	1.5
197.8431	17.02	-2.39	204541.200	2.5	255086.300	3.5	198.0977	28.01	-2.63	70635.460	2.5	121115.590	2.5
197.8464	28.01	-1.94	70358.940	4.5	120903.200	3.5	198.0983	26.03	-2.12	137947.500	1.5	188427.500	2.5
197.8496	28.02	-2.73	154170.600	3.0	204714.000	3.0	198.1002	25.01	-1.04	31514.350	4.0	81993.850	4.0
197.8552	20.02	-5.54	277380.860	2.0	327922.870	2.0	198.1014	27.02	-2.03	76518.900	5.5	126998.100	4.5
197.8580	28.02	-2.72	82277.000	1.0	132818.300	2.0	198.1061	10.03	-8.3	643239.000	5	693717.000	1.5
197.8610	26.01	-5.87	18886.750	5	69427.270	5	198.1107	23.02	-3.12	49327.740	2.5	99804.570	2.5
197.8619	26.02	-1.30	88923.070	6.0	139463.360	5.0	198.1132	26.02	-2.54	136235.840	1.0	186712.020	1.0
197.8640	28.01	-4.08	70778.120	3.5	121317.890	3.5	198.1164	28.01	-3.14	68156.570	1.5	118631.950	5
197.8670	9.01	-2.30	236169.930	1.0	286708.930	0.0	198.1195	20.02	-8.28	272188.700	1.0	322663.280	0.0
197.8697	25.01	-6.49	27546.900	6.0	78085.200	5.0	198.1227	23.01	-4.03	0.000	0.0	50473.760	1.0
197.8705	18.01	-3.22	158730.210	2.5	209268.310	1.5	198.1303	18.02	-1.70	231627.300	1.0	282099.140	2.0
197.8738	25.01	-3.27	34910.430	4.0	85447.700	5.0	198.1344	27.02	-5.54	57036.800	5	107507.600	5
197.8742	25.00	-4.82	17282.000	3.5	67819.170	4.5	198.1350	24.00	-5.83	7593.160	2.0	58063.800	2.0
197.8748	9.02	-4.07	416185.420	2.5	466722.420	2.5	198.1370	22.01	-2.88	8997.690	3.5	59467.810	3.5
197.8779	9.01	-3.14	236169.930	1.0	286708.930	1.0	198.1388	18.01	-1.17	157673.320	2.5	208142.990	3.5
197.8787	25.02	-4.20	85173.880	1.5	135709.900	2.5	198.1434	28.02	-4.55	133390.800	3.0	183859.300	3.0
197.8821	10.01	-4.51	251522.120	1.5	302057.260	5	198.1437	18.01	-1.81	158730.210	2.5	209198.630	2.5
197.8823	25.02	-3.11	144880.100	5.5	195415.200	4.5	198.1465	29.02	-2.29	77967.600	2.5	128435.300	1.5
197.8838	25.01	-2.99	43696.190	3.0	94230.900	2.0	198.1491	26.02	-1.59	109570.840	2.0	160037.900	2.0
197.8862	28.02	-3.25	133325.200	4.0	183859.300	3.0	198.1516	28.02	-1.66	83033.800	2.0	133500.200	2.0
197.8884	9.01	-1.80	236172.610	2.0	286706.140	1.0	198.1551	23.01	-1.56	18293.870	2.0	68759.400	1.0
197.8917	27.01	-3.51	10708.100	3.0	61240.800	3.0	198.1600	26.02	-1.06	135990.620	4.0	184454.890	5.0
197.8918	26.01	-2.93	15844.710	4.5	66377.370	3.5	198.1611	28.00	-1.30	879.813	2.0	51343.800	2.0
197.8948	27.02	-3.36	76518.900	5.5	127050.800	4.5	198.1656	25.01	-1.76	30684.810	1.0	81147.650	2.0
197.8954	25.02	-2.23	85200.760	5.5	137372.500	4.5	198.1659	28.01	-3.99	70778.120	3.5	121240.900	3.5
197.8968	11.02	-1.52	418418.100	1.5	468949.500	5	198.1663	23.01	-6.02	13594.730	2.0	64057.390	3.0
197.8969	9.01	-3.68	236169.930	1.0	286701.280	2.0	198.1709	24.02	-4.08	43304.100	2.0	93765.600	2.0
197.8971	25.01	-1.61	31661.720	3.0	82193.040	2.0	198.1744	27.01	-2.38	13404.600	1.0	63865.200	1.0
197.8973	23.01	-1.28	19112.930	4.0	69644.200	3.0	198.1748	18.01	-1.32	157233.930	3.5	207694.420	3.5
197.8979	23.02	-3.17	56529.300	5	107060.410	5	198.1894	26.00	-5.21	0.000	4.0	50456.790	3.0
197.9046	25.01	-3.08	43339.100	2.0	93868.500	1.0	198.1946	25.02	-1.69	144959.740	4.5	195415.200	4.5
197.9059	25.02	-2.81	84981.630	3.5	135510.700	2.5	198.1983	26.01	-2.69	22637.190	4.5	73091.700	4.5
197.9074	9.01	-4.82	236172.610	2.0	286701.280	2.0	198.2078	26.02	-2.22	66522.950	2.0	116975.050	2.0
197.9092	23.01	-3.02	18269.490	1.0	68797.700	2.0	198.2153	29.01	-2.81	71531.500	3.0	121981.680	2.0
197.9110	10.02	-2.11	389058.240	1.0	439586.000	2.0	198.2173	28.01	-3.94	70778.120	3.5	121247.800	2.5
197.9120	19.02	-4.99	190916.000	1.5	241443.500	2.5	198.2207	25.02	-2.26	86486.770	1.5	136933.800	5
197.9126	18.01	-3.09	158167.710	1.5	208695.070	1.5	198.2224	23.01	-3.30	13609.000	4.0	64057.390	3.0
197.9150	26.01	-2.71	21711.890	3.5	72238.630	2.5	198.2278	24.00	-3.49	8307.570	4.0	58754.580	5.0
197.9171	8.02	-2.91	306584.800	2.0	357111.000	2.0	198.2278	9.04	-8.80	784100.000	5	834547.000	1.5
197.9205	14.00	-4.26	77.115	1.0	50602.440	0.0	198.2280	10.02	-6.68	389139.050	3.0	439586.000	2.0
197.9219	26.02	-2.57	151757.670	2.0	202282.650	2.0	198.2400	24.02	-4.56	43321.700	3.0	93765.600	2.0
197.9233	14.02	-5.73	204330.790	2.0	254855.420	3.0	198.2404	23.01	-1.78	18353.890	3.0	68797.700	2.0
197.9243	23.01	-5.34	25191.080	2.0	75715.450	1.0	198.2436	23.03	-5.57	96412.100	2.0	146855.100	3.0
197.9312	18.01	-4.00	138243.550	1.5	188766.150	2.5	198.2442	26.02	-2.39	151757.670	2.0	202200.510	3.0
197.9320	12.02	-7.0	427852.100	0.0	478374.500	1.0	198.2538	28.02	-6.64	71841.900	1.0	122262.300	2.0
197.9342	23.01	-4.00	13609.000	4.0	64130.640	4.0	198.2560	25.00	-4.77	17451.520	2.5	67891.360	3.5
197.9374	28.01	-3.07	70706.770	1.5	121227.800	2.5	198.2576	10.01	-1.80	252798.480	5	303237.910	1.5
197.9434	12.02	-1.54	496012.100	0.0	546531.600	1.0	198.2628	25.01	-2.18	31661.720	3.0	82099.820	4.0
197.9438	26.02	-1.09	90483.590	3.0	141002.990	4.0	198.2644	23.01	-4.78	36.050	1.0	50473.760	1.0
197.9452	24.01	-4.85	19798.010	2.5	70317.040	2.5	198.2755	9.02	-3.66	418248.560	1.5	468683.430	2.5
197.9453	17.02	-1.56	151848.600	2.5	202367.600	3.5	198.2775	25.02	-2.9	85346.720	6.5	135781.090	5.5
197.9455	23.02	-4.07	105282.650	2.5	155801.600	1.5	198.2805	27.02	-2.98	76791.100	1.5	127224.700	5
197.9460	26.02	-3.03	151637.300	1.0	202156.130	2.0	198.2806	26.02	-8.80	66464.640	3.0	116898.220	2.0
197.9467	25.01	-3.99	32856.950	3.0	83375.600	3.0	198.2864	25.01	-2.56	31760.930	2.0	82193.040	2.0
197.9512	30.02	-3.31	234384.000	3.0	284901.500	2.0	198.2918	25.02	-1.54	84610.530	3.5	135041.250	1.5
197.9526	26.01	-3.29	27620.390	2.5	78137.530	3.5	198.3031	26.01	-1.79	27314.930	3.5	77742.780	2.5
197.9541	25.01	-4.99	32858.840	2.0	83375.600	3.0	198.3053	11.02	-2.82	411963.900	1.5	462391.200	5
197.9545	26.02	-9.5	70725.010	3.0	121241.670	4.0	198.3081	26.01	-5.56	21812.040	1.5	72238.630	2.5
197.9546	10.02	-1.42	389069.370	2.0	439586.000	2.0	198.3109	10.01	-4.24	251522.120	1.5	301948.000	1.5
197.9549	28.01	-3.53	70778.120	3.5	121294.670	4.5	198.3144	26.02	-8.83	84671.870	3.0	135098.840	3.0
197.9614	26.01	-3.43	36252.960	2.5	86767.870	2.5	198.3150	25.01	-1.21	30795.750	4.0	81220.580	3.0
197.9621	23.01	-3.51	13542.680	3.0	64057.390	3.0	198.3220	29.01	-2.38	88605.160	1.0	135028.200	2.0
197.9639	25.01	-5.45	27570.950	5.0	78085.200	5.0	198.3233	14.00	-3.13	77.115	1.0	50495.838	2.0
197.9675	25.00	-4.68	17451.520	2.5	67964.870	2.5	198.3295	26.01	-2.71	36126.410	1.5	86547.550	2.5
197.9692	26.02	-1.79	70728.750	4.0	121241.670	4.0	198.3298	18.01	-1.33	145668.800	1.5	196669.670	2.5
197.9710	18.01	-2.09	157233.930	3.5	207746.380	2.5	198.331						

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
198.4129	23.02	-3.33	105282.650	2.5	155682.600	3.5	198.7428	24.01	-2.12	32603.730	2.5	82920.030	1.5
198.4172	25.01	-4.20	32856.950	3.0	83255.800	2.0	198.7448	23.01	-6.03	13741.610	3.0	64057.390	3.0
198.4174	25.01	-4.96	27546.900	6.0	77945.710	7.0	198.7449	28.01	-2.17	71770.830	2.5	122086.580	3.5
198.4247	25.01	-4.21	32858.840	2.0	83255.800	2.0	198.7459	29.01	-4.96	88926.090	0.0	139241.600	1.0
198.4290	26.02	-4.62	79860.420	5.0	130256.270	5.0	198.7488	24.01	-4.85	31117.590	2.5	81432.360	3.5
198.4332	27.02	-4.87	77622.900	4.5	128017.700	3.5	198.7501	26.02	-4.60	63425.170	6.0	113739.620	6.0
198.4418	11.01	-3.10	418556.900	.5	468949.500	.5	198.7520	18.01	-4.57	158167.710	1.5	208481.660	.5
198.4440	14.00	-3.50	6298.850	2.0	56690.903	2.0	198.7550	26.00	-4.28	888.132	1.0	51201.330	2.0
198.4451	26.02	-1.66	69788.190	1.0	120179.950	0.0	198.7565	26.02	-3.40	135990.620	4.0	186303.440	3.0
198.4467	23.02	-3.33	56669.050	1.5	107060.410	.5	198.7572	26.02	-3.61	132079.910	3.0	182392.550	2.0
198.4542	26.02	-1.58	84159.550	4.0	134549.000	3.0	198.7640	32.00	-1.35	1371.178	0.0	51682.099	0.0
198.4551	23.01	-4.41	13741.610	3.0	64130.840	4.0	198.7683	25.02	-1.78	86486.770	1.5	136796.610	2.5
198.4587	26.02	-1.77	135990.620	4.0	186378.940	4.0	198.7699	28.01	-3.01	71770.830	2.5	122086.580	3.5
198.4622	26.00	-5.33	415.932	3.0	50803.350	2.0	198.7813	26.02	-1.08	66591.680	1.0	116898.220	2.0
198.4678	26.03	-2.52	137698.900	.5	188084.900	1.5	198.7819	27.02	-2.40	83773.400	1.5	134079.800	1.5
198.4682	25.02	-4.39	144522.300	4.5	194908.200	5.5	198.7838	28.02	-2.35	83033.800	2.0	133339.700	1.0
198.4685	26.02	-2.37	136612.780	4.0	186998.600	4.0	198.7900	26.02	-3.95	86671.870	3.0	134976.220	3.0
198.4718	27.01	-4.30	21624.400	5.0	72009.400	4.0	198.7915	26.02	-2.80	132104.940	2.0	182406.910	3.0
198.4735	26.02	-2.78	92523.910	5.0	142908.480	5.0	198.7953	26.01	-3.96	16369.390	3.5	66672.390	3.5
198.4772	26.02	-3.89	131445.030	2.0	181828.660	2.0	198.7956	25.02	-1.77	86520.940	2.5	136623.860	3.5
198.4782	26.02	-0.89	66591.680	1.0	116975.050	2.0	198.8032	30.02	-2.40	235452.500	2.0	285753.500	2.0
198.4786	25.00	-6.09	0.000	2.5	50383.270	-1.5	198.8061	25.01	-1.41	31022.050	0.0	81322.330	1.0
198.4852	27.01	-2.42	0.000	4.0	50381.600	3.0	198.8262	25.01	-6.19	27546.900	6.0	77842.090	6.0
198.4896	25.01	-2.99	43850.420	2.0	94230.900	2.0	198.8281	26.02	-3.27	136008.740	3.0	186303.440	3.0
198.4949	26.01	-1.26	22637.190	4.5	73016.330	3.5	198.8285	26.01	-3.88	36252.960	2.5	86547.550	2.5
198.4990	25.02	-3.59	144522.300	4.5	194900.400	5.5	198.8354	24.01	-7.37	20024.180	3.5	70317.040	2.5
198.4993	10.03	-0.37	643975.000	2.5	694353.000	2.5	198.8420	26.01	-3.60	36252.960	2.5	86544.140	1.5
198.5076	27.00	-7.03	0.000	4.5	50375.910	5.5	198.8447	27.02	-2.29	83789.300	.5	134079.800	1.5
198.5081	26.02	-2.58	132104.940	2.0	182408.720	2.0	198.8561	26.02	-3.61	132104.940	2.0	182392.550	2.0
198.5101	26.02	-0.69	66522.950	2.0	116898.220	2.0	198.8580	28.01	-1.64	52738.450	2.5	103025.580	2.5
198.5175	12.02	.17	534197.700	1.0	584571.100	2.0	198.8602	18.01	-1.30	144709.910	.5	194996.490	1.5
198.5181	25.00	-6.50	0.000	2.5	50373.230	2.5	198.8607	23.02	-3.15	105282.650	2.5	155569.100	2.5
198.5192	18.02	-1.72	231627.300	1.0	282000.260	1.0	198.8616	28.01	-4.31	68156.570	1.5	118442.810	1.5
198.5231	25.01	-1.41	31514.350	4.0	81886.330	5.0	198.8623	26.02	-1.57	87901.870	3.0	138187.930	3.0
198.5265	26.02	-2.89	93512.640	4.0	143883.740	5.0	198.8648	18.01	-.95	158730.210	2.5	209015.630	3.5
198.5285	27.02	-1.29	78434.300	.5	128804.900	1.5	198.8665	23.01	-3.95	13741.610	3.0	64026.600	4.0
198.5298	24.01	-4.29	20024.180	3.5	70394.460	4.5	198.8690	10.01	-3.54	252953.540	1.5	303237.910	1.5
198.5301	26.02	-2.22	136008.740	3.0	186378.940	4.0	198.8713	26.02	-3.02	70725.010	3.0	121008.780	3.0
198.5309	26.01	-3.10	33501.320	3.5	83871.310	4.5	198.8799	27.02	-1.20	79425.300	2.5	129706.900	3.5
198.5327	25.01	-4.56	30684.810	1.0	81054.350	2.0	198.8808	26.01	-3.19	22810.330	3.5	73091.700	4.5
198.5363	27.00	-5.68	816.000	3.5	51184.630	3.5	198.8854	27.02	-3.18	83799.600	2.5	134079.800	1.5
198.5376	24.01	-4.92	30864.610	2.5	81232.910	2.5	198.8861	26.02	-4.49	70728.750	4.0	121008.780	3.0
198.5397	25.02	-0.10	86520.940	2.5	136888.700	1.5	198.8959	10.01	-4.46	224087.020	1.5	274364.570	2.5
198.5414	26.01	-3.73	33501.320	3.5	83868.650	2.5	198.8985	23.02	-1.67	91710.430	3.5	141987.320	3.5
198.5419	24.01	-1.13	20512.750	5.5	70879.950	5.5	198.8994	14.00	-2.51	223.157	2.0	50499.838	2.0
198.5422	23.01	-4.60	106.630	2.0	50473.760	1.0	198.9009	26.02	-1.68	82382.870	3.0	132659.170	4.0
198.5431	28.01	-4.34	70748.700	.5	121115.590	1.5	198.9034	25.02	-5.56	86520.940	2.5	136796.610	2.5
198.5514	26.02	-3.96	132079.910	3.0	182444.700	3.0	198.9051	10.01	-1.86	254165.010	1.5	304440.240	.5
198.5568	25.01	-2.12	35004.430	3.0	85367.850	2.0	198.9053	25.02	-1.72	94397.200	3.5	144672.380	2.5
198.5577	28.01	-4.82	70748.700	.5	121111.900	.5	198.9053	24.00	-2.72	7927.470	2.0	58202.650	3.0
198.5577	11.02	-0.43	367052.300	1.5	417415.500	1.5	198.9091	23.01	-3.98	13542.680	3.0	63816.900	3.0
198.5585	24.03	-0.12	109950.000	2.5	160313.000	2.5	198.9130	26.02	-2.26	63466.390	5.0	113739.620	6.0
198.5699	24.01	-1.98	20519.850	4.5	70879.950	5.5	198.9187	24.02	-3.91	49827.700	3.0	100099.500	4.0
198.5731	25.00	-4.81	0.000	2.5	50359.280	3.5	198.9191	27.01	-2.12	13593.500	0.0	63865.200	1.0
198.5738	28.02	-1.94	133500.200	2.0	183859.300	3.0	198.9213	25.01	-5.51	27570.950	5.0	77842.090	6.0
198.5749	56.01	-1.22	20261.562	0.0	70620.394	0.0	198.9218	30.02	-3.36	235452.500	2.0	285723.500	3.0
198.5770	11.02	-0.44	417415.500	1.5	467773.800	2.5	198.9250	26.02	-3.33	136612.780	4.0	186882.980	3.0
198.5817	26.01	-4.95	21812.040	1.5	72169.150	1.5	198.9266	24.02	-4.05	109533.500	4.0	159803.300	4.0
198.5821	28.02	-4.47	83033.800	2.0	133390.800	3.0	198.9269	26.02	-1.77	136185.170	5.0	186454.890	5.0
198.5904	27.01	-3.44	13261.100	2.0	63616.000	2.0	198.9271	26.02	-1.03	90423.680	2.0	140693.360	3.0
198.6018	24.00	-2.36	7810.820	1.0	58162.840	2.0	198.9298	10.04	-4.41	640422.000	1.0	690691.000	2.0
198.6076	26.02	-3.80	136532.450	2.0	186882.980	3.0	198.9333	28.02	-4.52	82826.900	4.0	133095.000	3.0
198.6101	29.02	-2.65	86133.000	.5	136482.900	1.5	198.9361	26.02	-1.79	90483.590	3.0	140750.980	2.0
198.6106	28.01	-3.43	68965.650	1.5	119315.440	2.5	198.9375	18.01	-2.82	158428.030	.5	208695.070	1.5
198.6111	22.01	-1.31	9118.150	4.5	59467.810	3.5	198.9377	28.01	-2.19	66571.340	2.5	116838.330	1.5
198.6157	25.01	-1.88	31514.350	4.0	81862.840	4.0	198.9402	25.01	-1.28	31514.350	4.0	81780.700	3.0
198.6160	12.03	-2.84	553659.000	1.5	604007.400	2.5	198.9414	26.02	-0.99	132564.710	5.0	182830.760	6.0
198.6259	26.02	-1.28	66591.680	1.0	116937.570	1.0	198.9417	26.02	-1.99	84671.870	3.0	134937.840	2.0
198.6301	29.01	-1.63	85388.770	2.0	135733.600	3.0	198.9476	24.00	-5.53	0.000	3.0	50264.480	3.0
198.6333	27.00	-4.51	816.000	3.5	51160.030	2.5	198.9484	26.00	-4.64	7376.762	4.0	57641.060	3.0
198.6364	14.00	-3.13	223.157	2.0	50566.397	1.0	198.9509	20.02	-0.83	281139.550	1.0	331403.200	1.0
198.6397	23.01	-5.97	14461.730	3.0	64804.130	2.0	198.9512	24.01	-4.38	31168.780	3.5	81432.360	.5
198.6397	25.01	-1.57	38720.200	6.0	89062.600	5.0	198.9552	26.01	-3.94	36126.410	1.5	86388.980	3.5
198.6414	26.01	-1.18	25787.600	1.5	76129.580	1.5	198.9579	25.02	.45	94697.850	3.5	144959.740	4.5
198.6501	26.02	-3.83	132104.940	2.0	182444.700	3.0	198.9602	27.02	.50	77411.600	5.5	127672.900	6.5
198.6507	24.01	-3.68	20512.620	2.5	70852.240	3.5	198.9634	27.02	-3.31	82363.300	4.5	132623.800	3.5
198.6540	26.02	-2.66	132079.910	3.0	182418.700	4.0	198.9638	27.01	-1.57	13404.600	1.0	63665.000	1.0
198.6551	18.01	-2.20	157673.320	2.5	208011.810	1.5	198.9646	27.02	-.66	57			

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
199.0533	13.01	-2.29	59849.700	1.0	110087.500	2.0
199.0596	23.01	-4.68	17910.980	4.0	68147.200	4.0
199.0608	27.02	-1.89	55729.200	3.5	105965.100	2.5
199.0629	24.00	-2.50	7927.470	2.0	58162.840	2.0
199.0650	26.02	-2.00	69747.400	0.0	119982.260	1.0
199.0652	28.01	-3.94	71457.740	3.5	121692.550	4.5
199.0661	25.01	-3.05	32836.400	1.0	83070.970	2.0
199.0707	28.02	-4.50	154170.600	3.0	204404.000	4.0
199.0715	23.03	-1.01	96196.100	1.0	146429.300	2.0
199.0769	24.01	-1.16	35707.660	5.5	85939.500	4.5
199.0796	26.01	-2.36	21812.040	1.5	72043.210	1.5
199.0850	26.01	-2.18	36252.960	2.5	86482.750	3.5
199.0892	16.01	-3.14	114230.750	2.5	164459.500	2.5
199.1028	20.02	-2.56	323655.060	2.0	373880.370	3.0
199.1036	23.01	-4.96	11908.270	2.0	62133.390	3.0
199.1072	25.01	-2.86	38901.800	4.0	89126.000	3.0
199.1092	27.02	-2.61	82363.300	4.5	132587.000	4.5
199.1138	28.01	-2.77	68156.570	1.5	118379.110	2.5
199.1153	23.01	-3.88	13594.730	2.0	63816.900	3.0
199.1227	24.00	-5.54	7927.470	2.0	58147.260	3.0
199.1247	26.01	-1.95	16369.390	3.5	66589.170	4.5
199.1277	7.01	-1.44	164610.760	1.0	214829.790	1.0
199.1303	25.02	-0.04	86578.240	3.5	136796.610	2.5
199.1314	27.02	-2.22	56373.800	2.5	106591.900	1.5
199.1375	16.01	-3.17	114230.750	2.5	164447.300	2.5
199.1443	25.01	-2.87	31022.050	0.0	81236.890	1.0
199.1471	23.02	-3.98	105282.650	2.5	155496.800	1.5
199.1476	25.01	-2.51	32856.950	3.0	83070.970	2.0
199.1480	24.02	-3.41	49626.800	2.0	99840.700	3.0
199.1521	24.01	-2.81	31219.490	4.5	81432.360	3.5
199.1551	25.01	-2.54	32858.840	2.0	83070.970	2.0
199.1553	26.00	-5.85	415.932	3.0	50628.000	3.0
199.1580	27.01	-1.87	13404.600	1.0	63616.000	2.0
199.1601	24.00	-5.75	0.000	3.0	50210.870	4.0
199.1603	27.00	-5.41	0.000	4.5	50210.800	4.5
199.1611	26.02	-4.7	63466.390	5.0	113677.010	5.0
199.1644	26.02	-5.50	90483.590	3.0	140693.360	3.0
199.1658	8.01	-4.72	208392.270	1.5	258601.700	1.5
199.1718	23.01	-5.73	13609.000	4.0	63816.900	3.0
199.1766	28.01	-2.13	66579.710	1.5	116786.420	5
199.1794	26.01	-2.14	22810.330	3.5	73016.330	3.5
199.1829	27.00	-3.81	1809.330	1.5	52014.450	1.5
199.1853	14.00	-3.47	6298.850	2.0	56503.346	2.0
199.1868	26.01	-2.92	22939.350	2.5	73143.480	3.5
199.1868	18.01	-2.46	159393.310	1.5	209597.450	1.5
199.1953	24.03	-3.51	183453.000	5.5	233655.000	5.5
199.1970	26.02	-2.87	136797.050	3.0	186998.600	4.0
199.1982	26.02	-1.39	87901.870	3.0	138103.120	4.0
199.1987	25.01	-3.57	31661.720	3.0	81862.840	4.0
199.1998	26.02	-5.69	84159.550	4.0	134360.140	2.0
199.2012	6.00	-5.96	10192.630	2.0	60393.140	2.0
199.2014	26.02	-2.2	79840.120	7.0	130040.560	7.0
199.2024	29.02	-4.76	145353.000	1.5	195553.200	2.5
199.2074	23.01	-6.95	2604.820	1.0	52803.750	1.0
199.2108	26.00	-5.82	415.932	3.0	50614.020	4.0
199.2135	24.00	-6.66	8095.210	3.0	58292.620	4.0
199.2149	26.00	-5.23	704.003	2.0	50901.060	2.0
199.2167	27.02	-1.46	77121.100	4.5	127317.700	3.5
199.2171	27.02	-3.63	76791.100	1.5	126987.600	1.5
199.2198	26.02	-4.6	79844.740	6.0	130040.560	7.0
199.2240	25.01	-1.41	38901.800	4.0	89096.560	4.0
199.2267	26.02	-2.65	69788.190	1.0	119982.260	1.0
199.2279	26.02	-4.06	136185.170	5.0	186378.940	4.0
199.2321	25.01	-2.88	14325.860	4.0	64518.570	5.0
199.2420	26.02	-4.51	63486.780	4.0	113677.010	5.0
199.2441	11.02	-1.68	412201.500	5	462391.200	5
199.2488	6.00	-3.59	69689.480	1.0	119878.000	1.0
199.2495	25.02	-1.43	62456.990	5	112649.310	5
199.2548	16.05	-5.5	401621.000	1.5	451808.000	2.5
199.2588	9.04	-5.50	784361.000	1.5	834547.000	1.5
199.2607	26.02	-1.27	136117.940	2.0	186303.440	3.0
199.2658	24.00	-1.44	7810.820	1.0	57995.040	1.0
199.2663	24.00	-6.66	0.000	3.0	50184.100	2.0
199.2687	24.02	-4.41	63172.200	2.0	113355.700	2.0
199.2730	28.01	-3.43	51557.850	3.5	101740.270	3.5
199.2778	26.01	-3.14	21251.550	6.5	71432.750	7.5
199.2796	23.02	-1.02	49327.740	2.5	99508.500	1.5
199.2810	16.01	-2.28	114279.110	3.5	164459.500	2.5
199.2847	26.02	-1.17	84369.920	2.0	134549.380	1.0
199.2848	18.01	-4.25	139258.250	5	189437.690	5
199.2862	26.02	-1.7	84369.920	2.0	134549.380	3.0
199.2873	26.02	-1.23	136200.130	3.0	186378.940	4.0
199.2883	25.02	-2.91	84610.530	5	134789.080	5
199.2884	25.02	-3.75	145008.360	6.5	195186.900	7.5
199.2889	28.02	-2.57	63472.600	2.0	113651.000	2.0
199.2897	26.03	-3.26	137698.900	5	187877.100	5
199.2955	23.01	-5.19	11908.270	2.0	62085.020	2.0
199.2960	23.02	-2.98	105320.180	1.5	155496.800	1.5
199.2987	26.00	-6.73	6928.266	5.0	57104.207	5.0
199.3108	25.02	-4.44	94707.200	4.5	144880.100	5.5
199.3186	26.00	-4.70	415.932	3.0	50586.857	3.0
199.3231	25.02	-1.2	86654.070	4.5	136823.860	3.5
199.3265	26.02	-1.09	63466.390	5.0	113635.340	4.0
199.3295	16.01	-3.66	114279.110	3.5	164447.300	2.5
199.3298	26.01	-2.68	15844.710	4.5	66012.830	4.5
199.3299	27.01	-4.31	17771.500	3.0	67939.600	2.0
199.3304	25.01	-2.55	14325.860	4.0	64493.830	4.0
199.3362	28.02	-8.86	86646.200	2.0	136812.700	2.0
199.3363	24.01	-1.63	20512.750	5.5	70679.220	4.5
199.3368	23.01	-4.35	13490.840	2.0	63657.200	2.0
199.3461	16.05	-4.41	401621.000	1.5	451785.000	1.5
199.3503	28.01	-3.86	68131.210	3.5	118294.170	3.5
199.3517	10.01	-2.45	252798.480	5	302961.070	1.5
199.3566	18.01	-2.33	158167.710	1.5	208329.080	5
199.3574	28.01	-8.82	66571.340	2.5	116732.510	2.5
199.3585	24.01	-2.01	20518.330	3.5	70679.220	4.5
199.3589	25.01	-1.78	38901.800	4.0	89062.600	5.0
199.3600	28.01	-3.04	68154.310	1.5	118314.820	2.5
199.3620	6.00	-3.92	10192.630	2.0	60352.630	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
199.3624	27.02	-6.62	56794.800	1.5	106954.700	2.5
199.3645	24.01	-1.38	20519.850	4.5	70679.220	4.5
199.3678	28.01	-1.19	77736.790	4.5	127895.330	3.5
199.3705	26.01	-2.33	23031.300	1.5	73189.160	1.5
199.3764	12.02	-3.38	534197.700	1.0	584354.100	2.0
199.3772	24.01	-4.74	19798.010	2.5	69954.200	2.5
199.3773	26.01	-1.86	23031.300	1.5	73187.460	1.5
199.3775	25.02	-4.46	144880.100	5.5	195036.200	6.5
199.3775	25.02	-4.35	144880.100	5.5	195036.200	6.5
199.3811	16.01	-4.48	114162.200	5	164317.400	1.5
199.3901	26.01	-3.20	16369.390	3.5	66522.320	2.5
199.3907	28.01	-1.00	66579.710	1.5	116732.510	2.5
199.3908	26.01	-1.91	21812.040	1.5	71964.810	2.5
199.3938	21.02	-0.35	62102.200	5	112254.200	1.5
199.3959	26.02	-1.06	132659.170	4.0	182810.660	5.0
199.3965	23.02	-2.02	102961.280	3.5	153112.600	3.5
199.3971	25.01	-0.68	31661.720	3.0	81812.900	2.0
199.3984	26.02	-2.01	136117.940	2.0	186268.790	2.0
199.4026	24.01	-4.19	31083.110	1.5	61232.910	2.5
199.4055	28.01	-2.61	77736.790	4.5	127885.860	4.5
199.4075	26.02	-0.29	63486.780	4.0	113635.340	4.0
199.4081	25.01	-3.44	32787.600	4.0	82936.010	3.0
199.4095	10.01	-1.54	254292.190	5	304440.240	5
199.4097	12.02	-0.80	534197.700	1.0	584345.700	1.0
199.4113	24.00	-0.84	7810.820	1.0	57958.420	0.0
199.4126	25.01	-5.13	14325.860	4.0	64473.130	3.0
199.4197	23.01	-4.37	13511.710	1.0	63657.200	2.0
199.4200	52.00	1.35	4678.136	0.0	54823.558	0.0
199.4211	25.01	-1.89	31514.350	4.0	81659.500	3.0
199.4237	26.02	-1.23	69837.760	2.0	119982.260	1.0
199.4275	29.01	-3.08	72724.000	2.0	122867.530	1.0
199.4281	7.01	-1.21	170572.610	2.0	220716.000	3.0
199.4300	27.02	-1.31	82363.300	4.5	132506.200	5.5
199.4304	28.00	-0.96	0.000	4.0	50142.800	3.0
199.4326	25.01	-3.54	39808.140	3.0	89950.400	3.0
199.4328	17.02	-2.45	204541.200	2.5	254683.400	2.5
199.4340	26.00	-5.56	6928.266	5.0	57070.171	6.0
199.4344	23.01	-5.53	14461.730	3.0	64603.530	3.0
199.4362	26.02	-2.54	63494.000	3.0	113635.340	4.0
199.4432	30.02	-2.77	235452.500	2.0	285592.100	2.0
199.4519	26.03	-4.53	137947.500	1.5	188084.900	1.5
199.4534	25.01	-4.51	39813.380	2.0	89950.400	3.0
199.4562	24.00	-0.74	7927.470	2.0	58063.800	2.0
199.4578	23.02	-2.18	49805.290	3.5	99941.200	3.5
199.4668	9.02	-4.44	416168.300	1.5	466301.960	2.5
199.4689	6.01	-1.74	177774.590	5	227907.710	1.5
199.4733	18.02	-4.19	231341.800	2.0	281473.820	3.0
199.4780	33.00	1.13	18067.285	0.0	68198.126	0.0
199.4789	28.01	-1.41	76727.360	5.5	126857.970	5.5
199.4827	26.02	-0.50	89697.520	3.0	139827.170	4.0
199.4829	30.02	-3.29	235623.900	3.0	285753.500	2.0
199.4909	26.01	-3.32	25787.600	1.5	75915.210	2.5
199.4955	38.01	-0.74	24516.650	0.0	74643.094	0.0
199.5008	25.02	-0.83	94397.200	3.5	144522.300	4.5
199.5032	23.01	-2.65	14461.730	3.0	64586.230	2.0
199.5032	28.02	-3.75	83033.800	2.0	133158.300	3.0
199.5111	25.02	-1.86	90440.500	4.5	140563.030	3.5
199.5116	26.01	-2.21	27620.390	2.5	77742.780	2.5
199.5212	26.02	-1.93	97041.380	3.0	147161.360	4.0
199.5218	25.02	-1.46	94697.850	3.5	144817.660	3.5
199.5252	25.01	-2.25	31661.720	3.0	81780.700	3.0
199.5268	26.02	-0.29	63486.780	4.0	113605.370	3.0
199.5279	10.01	-1.89	252953.540	1.5	303071.840	2.5
199.5316	9.02	-4.44	416185.420	2.5	466302.600	3.5
199.5323	26.02	-2.30	132626.660	6.0	182379.860	5.0
199.5327	16.01	-2.75	114162.200	5	164279.300	5
199.5333	25.02	-0.74	90440.500	4.5	140557.460	4.5
199.5333	16.01	-4.78	114200.450	1.5	164317.400	1.5
199.5341	23.01	-6.86	2687.010	2.0	52803.750	1.0
199.5386	26.01	-2.82	22939.350	2.5	73054.970	2.5
199.5395	27.02	-0.86	56373.800	2.5	106489.200	3.5
199.5398	24.01	-4.21	31117.590	2.5	61234.910	2.5
199.5419	26.01	-2.33	22409.820	5	72524.620	1.5
199.5430	23.01	-8.21	13542.680	3.0	63657.200	2.0
199.5444	6.01	-1.04	177793.540	1.5	227907.710	1.5
199.5497	24.01	-4.21	30307.600	1.5	80420.430	2.5
199.5516	23.02	-3.12	49327.740	2.5	99440.100	2.5
199.5555	26.02	-0.21	63494.000	3.0	113605.370	3.0
199.5557	25.01	-3.19	41190.470	6.0	91301.800	5.0
199.5566	11.02	-0.23	14281.000	2.5	464392.100	2.5
199.5577	26.02	-1.90	63494.560	2.0	113605.370	3.0
199.5591	25.02	-1.97	94707.200	4.5	144817.680	3.5
199.5594	24.01	-3.72	19528.380	5	69638.770	1.5
199.5594	11.02	-1.13	18418.100	1.5	648528.500	1.5
199.5712	24.00	-3.48	8095.210	3.0	58202.650	3.0
199.5726	28.01	-1.05	23796.180	1.5	73903.250	5
199.5744	6.01	-1.43	177774.590	5	227881.210	5
199.5777	27.01	-2.08	13261.100	2.0	63366.900	2.0
199.5791	24.01	-4.54	19798.010	2.5	69903.460	3.5
199.5823	38.01	-1.71	24516.650	0.0	74621.294	0.0
199.5847	26.02	-3.77	139680.470	3.0	189784.520	2.0
199.5876	26.02	-1.87	136200.130	3.0	186303.440	3.0
199.5884	17.02	-0.18	205037.300	1.5	255140.400	2.5
199.5904	25.01	-3.40	32836.400	1.0	82939.000	1.0
199.5927	24.00	-5.65	0.000	3.0	50102.040	3.0
199.5928	27.02	-2.43	78434.300	5	128536.300	5
199.5962	26.02	-4.44	70725.010	3.0	120826.170	2.0
199.6024	30.02	-2.25	235623.900	3.0	285723.500	3.0
199.6034	26.00	-4.33	704.000	2.0	50803.350	2.0
199.6041	25.00	-0.73	0.000	2.5	50099.160	1.5
199.6109	25.01	-4.76	41204.340	5.0	91361.800	5.0
199.6199	23.01	-7.68	2604.820	1.0	52700.030	2.0
199.6282	22.02	-3.34	83116.580	3.0	133209.700	3.0
199.6314	28.01	-3.25	67880.160	2.5	117972.470	3.5
199.6329	25.01	-3.68	44138.960	1.0	94230.900	2.0
199.6359	26.03	-0.40	138336.300	2.5	188427.500	2.5
199.6398	26.02	-0.50	63494.000	3.0	113564.200	2.0
199.6409	25.01	-0.58	37851.150	3.0	87741.060	4.0
199.6414	16.01	-3.67	114162.200	5	164279.300	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
199.6421	26.02	-0.08	63494.560	2.0	113584.200	2.0	199.9413	26.02	-1.26	79840.120	7.0	129854.800	6.0
199.6440	26.02	-2.68	136793.820	2.0	186882.980	3.0	199.9434	26.02	-2.45	136793.820	2.0	186791.780	2.0
199.6499	6.01	-1.73	177793.540	1.5	227881.210	5	199.9441	25.01	-2.56	31661.720	3.0	1659.500	3.0
199.6536	26.01	-2.75	15844.710	4.5	65931.460	3.5	199.9463	26.01	-1.09	22637.190	4.5	72650.630	4.5
199.6540	16.01	-2.74	114230.750	2.5	164317.400	1.5	199.9472	24.02	-1.14	50408.200	5.0	100421.400	5.0
199.6542	27.00	-7.31	816.000	3.5	50902.610	4.5	199.9479	23.01	-6.19	2687.010	2.0	52700.030	2.0
199.6569	26.02	-2.86	136797.050	3.0	186882.980	3.0	199.9480	24.02	-2.23	49827.700	3.0	99840.700	3.0
199.6623	29.01	-2.15	68447.570	3.0	118532.150	2.0	199.9483	26.00	-5.34	888.132	1.0	50901.060	2.0
199.6660	24.01	-3.29	20024.180	3.5	70107.830	4.5	199.9499	25.00	-0.55	0.000	2.5	50012.530	2.5
199.6674	19.02	-1.86	192082.000	2.5	242165.300	1.5	199.9517	29.01	-1.02	67916.390	1.0	117928.480	1.0
199.6686	27.01	-2.48	13261.100	2.0	63344.100	3.0	199.9534	28.00	-1.23	1332.153	3.0	51343.800	2.0
199.6724	18.01	-2.25	158167.710	1.5	208249.740	1.5	199.9551	56.01	-1.61	0.000	0.0	50011.228	0.0
199.6729	24.02	-2.89	109721.400	3.0	159803.300	4.0	199.9563	26.02	-3.62	136797.050	3.0	166791.780	2.0
199.6750	25.01	-2.91	32836.400	1.0	82917.780	2.0	199.9568	26.02	-0.38	66464.640	3.0	116475.440	3.0
199.6757	24.01	-3.78	31351.150	2.5	81432.360	3.5	199.9576	25.01	-2.69	37847.900	2.0	87856.510	2.0
199.6791	23.01	-6.56	2687.010	2.0	52767.360	3.0	199.9577	26.02	-0.47	79860.420	5.0	129854.800	6.0
199.6799	25.01	-3.34	32858.840	2.0	82939.000	1.0	199.9587	23.01	-3.06	17910.980	4.0	67905.100	3.0
199.6813	27.02	-1.73	76791.100	1.5	126870.900	2.5	199.9588	24.02	-1.60	50089.200	4.0	100099.500	4.0
199.6843	25.01	-2.77	32856.950	3.0	82936.010	3.0	199.9598	26.02	-0.03	79844.740	6.0	129854.800	6.0
199.6851	16.01	-3.44	114200.450	1.5	164279.300	5	199.9614	9.02	-4.53	441158.600	1.5	491168.250	2.5
199.6857	27.01	-3.06	21624.400	5.0	71703.100	5.0	199.9625	29.01	-3.23	71531.500	3.0	121524.670	3.0
199.6887	23.02	-1.58	103034.650	4.5	153112.600	3.5	199.9627	26.02	-0.57	98661.880	1.0	148655.060	0.0
199.6916	25.02	-1.89	62568.080	1.5	112645.310	5	199.9637	24.01	-3.93	32844.920	1.5	82854.000	5
199.6918	25.01	-4.64	32858.840	2.0	82936.010	3.0	199.9647	28.01	-4.81	67880.160	2.5	117872.780	2.5
199.6926	26.01	-3.12	22939.350	2.5	73016.330	3.5	199.9660	20.02	-1.65	227388.560	2.0	277360.660	2.0
199.6993	23.01	-4.21	13741.610	3.0	63816.900	3.0	199.9664	25.01	-2.00	39808.140	3.0	89800.340	4.0
199.7037	26.01	-6.51	26055.400	2.5	76129.580	1.5	199.9681	26.01	-2.65	16369.390	3.5	66377.370	3.5
199.7082	18.01	-2.63	157673.320	2.5	207746.380	2.5	199.9690	29.01	1.71	21777.530	0.0	71785.281	0.0
199.7097	24.00	-4.18	8095.210	3.0	58167.890	4.0	199.9699	29.01	-0.08	21928.600	3.0	71919.930	3.0
199.7109	25.02	-1.24	85173.880	1.5	135246.270	2.5	199.9699	10.01	-3.82	252953.540	1.5	302961.070	1.5
199.7123	24.01	-3.14	20512.620	2.5	70584.640	2.5	199.9700	24.01	-4.96	19631.280	1.5	69638.770	1.5
199.7132	27.02	-2.34	123123.100	1.5	173194.900	2.5	199.9722	26.01	-2.45	13474.430	2.5	63465.190	1.5
199.7132	27.02	-2.34	123123.100	1.5	173194.900	2.5	199.9730	26.01	-1.28	20516.980	2.5	70523.730	3.5
199.7132	27.02	-4.74	123123.100	1.5	173194.900	2.5	199.9742	26.02	-3.67	138103.120	4.0	188109.580	3.0
199.7144	27.01	-2.22	13593.500	0.0	63665.000	1.0	199.9748	27.02	-1.07	86283.800	4.5	136290.100	3.5
199.7144	17.02	-3.49	204541.200	2.5	254612.700	1.5	199.9776	9.02	-4.87	416185.420	2.5	466191.030	2.5
199.7257	26.02	-3.24	136200.130	3.0	186268.790	2.0	199.9800	27.02	-0.74	78434.300	5	128423.100	1.5
199.7298	24.00	-3.45	8095.210	3.0	58162.840	2.0	199.9824	24.01	-3.20	35569.020	2.5	85573.420	3.5
199.7301	24.00	-1.59	7927.470	2.0	57995.040	1.0	199.9837	23.02	-0.53	91710.430	3.5	141714.500	2.5
199.7325	26.02	-2.13	89697.520	3.0	139764.480	2.0	199.9876	25.01	-1.97	32836.400	1.0	82839.490	0.0
199.7351	24.01	-2.06	20518.330	3.0	70584.640	2.5	199.9878	25.01	-3.02	53597.130	2.0	103600.170	2.0
199.7385	25.00	-7.07	0.000	2.5	50065.460	3.5	199.9889	26.02	-1.26	66464.640	3.0	116467.410	4.0
199.7406	24.01	-3.87	32855.090	2.5	82920.030	1.5	199.9920	27.02	-1.84	77472.300	2.5	127458.100	1.5
199.7438	24.01	-3.56	31168.780	3.5	81232.910	2.5	199.9921	20.02	-1.94	278621.010	1.0	328606.780	2.0
199.7504	23.01	-4.15	13594.730	2.0	63657.200	2.0	199.9933	23.01	-3.20	20242.320	4.0	70227.800	5.0
199.7506	8.01	-4.53	208346.170	5	258408.600	5	199.9950	24.00	-0.04	6307.570	4.0	58292.620	4.0
199.7535	25.03	-1.13	138123.100	6.0	188184.800	6.0	199.9955	22.01	-1.43	20891.880	3.5	70893.000	3.5
199.7547	26.03	-3.83	138841.300	3.5	188902.700	3.5	199.9993	27.01	-2.42	22009.230	4.0	72009.400	4.0
199.7555	28.02	-2.75	83033.800	2.0	133095.000	3.0	199.9998	18.01	-1.32	159393.310	1.5	209377.170	2.5
199.7570	25.01	-4.74	32856.950	3.0	82917.780	2.0	200.0004	28.02	-3.41	82172.900	3.0	132156.600	4.0
199.7645	25.01	-4.30	32858.840	2.0	82917.780	2.0	200.0034	26.02	-0.04	89697.520	3.0	139680.470	3.0
199.7696	23.01	-6.22	13490.840	2.0	63548.500	1.0	200.0056	27.02	-1.55	76518.900	5.5	126501.300	5.5
199.7698	24.00	-7.34	0.000	3.0	50057.610	2.0	200.0124	26.00	-5.34	7728.058	3.0	57708.760	2.0
199.7708	28.01	-4.37	58705.950	1.5	108763.320	5	200.0126	24.01	-4.37	30307.600	1.5	80288.250	1.5
199.7719	23.03	-1.29	96798.000	3.0	146855.100	3.0	200.0235	23.02	-1.76	102961.280	3.5	152939.200	2.5
199.7795	9.02	-4.67	441406.460	3.5	491461.650	4.5	200.0336	26.02	-4.56	134976.220	3.0	184951.620	3.0
199.7846	26.02	-3.68	139625.170	4.0	189679.070	3.0	200.0368	28.02	-4.39	82194.300	5.0	132168.900	6.0
199.7857	18.01	-3.09	158428.030	5	208481.660	5	200.0371	25.02	-2.38	46497.850	3.5	144672.380	2.5
199.7878	27.01	-3.12	17771.500	3.0	67824.600	2.0	200.0374	25.01	-2.48	41204.340	5.0	91178.800	4.0
199.7900	24.00	-1.29	8095.210	3.0	58147.760	3.0	200.0377	26.01	-1.14	20340.360	5.5	70314.740	4.5
199.7918	25.01	-1.77	38720.200	6.0	88772.300	5.0	200.0400	25.01	-1.79	32856.950	3.0	82830.750	4.0
199.7923	25.01	-1.79	31760.930	2.0	81812.900	2.0	200.0481	20.02	-3.91	323655.060	2.0	373626.850	2.0
199.7940	16.01	-3.18	114200.450	1.5	164252.000	1.5	200.0489	11.02	-3.29	418556.900	5	468528.500	1.5
199.7954	30.02	-2.86	235452.500	2.0	285503.700	1.0	200.0496	28.00	-1.51	879.813	2.0	50851.220	1.0
199.8104	23.01	-2.79	14556.090	4.0	64603.530	3.0	200.0510	25.01	-0.71	31760.930	2.0	81732.000	1.0
199.8124	25.01	-1.85	37811.570	1.0	87858.510	2.0	200.0571	26.02	-2.04	73727.640	2.0	123697.180	2.0
199.8152	24.01	-1.81	34631.140	4.5	84677.390	3.5	200.0572	26.02	-3.03	90483.590	3.0	140454.100	3.0
199.8153	25.02	-1.34	94771.470	2.5	144817.680	3.5	200.0573	29.01	-2.20	66418.520	2.0	116388.000	2.0
199.8202	10.03	-1.31	643672.000	1.5	693717.000	1.5	200.0609	24.00	-0.54	8095.210	3.0	58063.800	2.0
199.8250	32.00	1.81	1371.178	0.0	51414.966	0.0	200.0625	30.02	-2.85	235623.900	3.0	285592.100	2.0
199.8258	26.02	-3.34	89783.590	4.0	139827.170	4.0	200.0720	24.01	-4.21	35607.600	3.5	85573.420	3.5
199.8275	25.01	-2.46	32787.600	4.0	82830.750	4.0	200.0759	18.01	-2.58	158730.210	2.5	208695.070	1.5
199.8367	26.00	-4.07	415.932	3.0	50456.790	3.0	200.0781	29.02	-0.86	89017.700	4.5	138982.000	3.5
199.8394	29.01	-3.00	88362.030	2.0	138402.200	3.0	200.0798	24.00	-7.47	7593.160	2.0	57557.030	3.0
199.8529	23.01	-4.60	13511.710	1.0	63548.500	1.0	200.0813	27.01	-1.77	950.300	3.0	50913.800	2.0
199.8544	29.01	-1.14	68447.570	3.0	118484.000	3.0	200.0833	27.02	-3.20	86327.100	3.5	136290.100	3.5
199.8565	27.01	-2.68	0.000	4.0	50035.900	3.0	200.0836	24.01	-2.10	35610.500	4.5	85573.420	3.5
199.8617	30.02	-2.12	234866.900	1.0	284901.500	2.0	200.0837	23.01	-4.58	16340.970			

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
200.1821	25.01	-2.36	32836.400	1.0	82774.730	1.0
200.1834	28.00	-1.95	204.786	3.0	50142.800	3.0
200.1835	27.02	-2.30	83773.400	1.5	133711.400	2.5
200.1839	24.01	-2.72	25047.040	2.5	74984.930	1.5
200.1874	10.01	-1.69	252953.540	1.5	302890.570	2.5
200.1895	25.01	-1.11	59537.400	4.0	109473.900	4.0
200.1911	29.02	-2.75	89045.900	3.5	138982.000	3.5
200.1939	24.02	-1.31	63420.300	3.0	113355.700	2.0
200.1964	23.02	-1.44	92052.550	4.5	141987.320	3.5
200.1971	27.02	-1.65	77383.100	3.5	127317.700	3.5
200.1991	25.01	-3.84	36274.290	2.0	86208.400	1.0
200.2000	25.00	1.61	4678.136	0.0	54628.186	0.0
200.2013	26.01	-4.76	25981.650	3.5	75915.210	2.5
200.2050	28.01	-3.21	56075.260	2.5	106007.890	2.5
200.2155	24.01	-4.76	20024.180	3.5	69954.200	2.5
200.2168	27.02	-2.00	77121.100	4.5	127050.800	4.5
200.2168	11.02	-1.30	443261.600	.5	493191.300	.5
200.2172	26.02	-3.34	137947.500	1.5	187877.100	.5
200.2195	25.00	-4.99	17052.290	4.5	66981.300	3.5
200.2228	28.01	-3.76	71770.830	2.5	121699.020	1.5
200.2247	26.02	-4.37	149285.000	3.0	199212.720	4.0
200.2315	22.01	-3.59	9395.760	1.5	59321.790	2.5
200.2358	25.01	-1.76	32787.600	4.0	82712.550	3.0
200.2396	26.00	-4.50	704.003	2.0	50628.000	3.0
200.2447	7.01	-4.35	170572.610	2.0	220495.360	2.0
200.2469	28.01	-4.33	68709.760	.5	118631.950	.5
200.2470	26.02	.25	109570.840	2.0	159493.000	3.0
200.2490	26.02	-4.79	138187.930	3.0	188109.580	3.0
200.2493	23.03	-1.19	96196.100	1.0	146117.700	1.0
200.2497	23.03	-3.10	215957.700	3.0	265879.200	2.0
200.2584	26.02	-1.58	89907.850	4.0	139827.170	4.0
200.2584	26.02	-1.51	89907.850	5.0	139827.170	4.0
200.2585	27.01	-4.52	11321.500	2.0	61240.600	3.0
200.2629	26.02	-3.16	136793.820	2.0	186712.020	1.0
200.2630	16.01	-3.16	114200.450	1.5	164118.600	.5
200.2673	23.01	-5.34	2687.010	2.0	52604.110	1.0
200.2697	17.02	-1.97	151848.600	2.5	201765.100	2.5
200.2722	25.01	-1.70	32858.840	2.0	82774.730	1.0
200.2722	25.01	-4.33	36274.290	2.0	86190.180	2.0
200.2734	23.01	-5.12	13741.610	3.0	63657.200	2.0
200.2749	26.00	-3.39	888.132	1.0	50803.350	2.0
200.2757	27.01	-4.90	1597.200	2.0	51512.200	3.0
200.2773	24.01	-2.22	20512.620	2.5	70427.220	3.5
200.2774	26.02	-4.12	139764.480	2.0	189679.070	3.0
200.2797	23.01	-7.46	3162.800	5.0	53076.820	6.0
200.2805	27.02	-1.54	82363.300	4.5	132277.100	3.5
200.2837	26.00	-5.34	7728.058	3.0	57641.060	3.0
200.2886	27.02	-2.82	83799.600	2.5	133711.400	2.5
200.2909	25.01	-5.24	29889.310	3.0	79800.520	4.0
200.2917	12.02	.26	534776.900	2.0	584687.900	3.0
200.2947	26.02	-4.80	138103.120	4.0	188013.400	4.0
200.2967	23.01	-7.61	2968.220	4.0	52877.990	5.0
200.2980	26.02	-2.00	69788.190	1.0	119697.640	2.0
200.2985	20.02	-1.71	281139.550	1.0	331048.860	0.0
200.3002	24.01	-1.50	20518.330	3.5	70427.220	3.5
200.3014	27.02	-3.43	73214.500	.5	123123.100	1.5
200.3034	27.01	-4.95	18031.500	2.0	67939.600	2.0
200.3053	29.01	-2.56	66418.520	2.0	116326.160	3.0
200.3063	24.01	-1.41	20519.850	4.5	70427.220	3.5
200.3098	26.02	-4.61	135096.840	3.0	185003.350	2.0
200.3300	25.01	-4.09	53698.700	2.0	103600.170	2.0
200.3317	18.01	-2.45	158428.030	.5	208329.080	.5
200.3323	25.02	-1.11	94771.470	2.5	144672.380	2.5
200.3340	33.00	1.95	10808.108	0.0	60724.747	0.0
200.3359	29.02	-3.27	78779.400	1.5	128679.400	2.5
200.3359	25.01	-2.02	14593.820	3.0	64493.830	4.0
200.3404	25.01	-1.99	32836.400	1.0	82735.290	2.0
200.3417	25.01	-2.78	31760.930	2.0	81659.500	3.0
200.3477	28.01	-2.85	66571.340	2.5	116468.400	1.5
200.3485	26.02	-1.73	89783.590	4.0	139680.470	3.0
200.3502	26.02	-1.23	66522.950	2.0	116419.390	2.0
200.3502	27.00	-4.04	816.000	3.5	50712.450	2.5
200.3530	75.00	1.27	0.000	0.0	49911.905	0.0
200.3540	26.02	-1.44	84369.920	2.0	134265.420	2.0
200.3557	24.00	-4.92	8307.570	4.0	58202.650	3.0
200.3584	28.02	-3.97	133158.300	3.0	183052.700	4.0
200.3636	30.02	-4.89	257796.000	5.0	307689.100	6.0
200.3679	25.02	-4.85	145008.360	6.5	194900.400	5.5
200.3683	18.01	-3.70	155351.030	1.5	205242.970	.5
200.3699	9.02	-3.86	441276.720	2.5	491168.250	2.5
200.3710	23.01	-5.18	2808.760	3.0	52700.030	2.0
200.3721	18.01	-2.18	159706.460	.5	209597.450	1.5
200.3730	76.00	1.68	4113.534	0.0	54020.458	0.0
200.3732	27.00	-4.92	3482.820	4.5	53373.530	3.5
200.3814	28.01	-3.35	66579.710	1.5	116468.400	1.5
200.3838	25.00	-1.42	0.000	2.5	49888.080	3.5
200.3861	28.01	-2.36	77332.470	2.5	127219.970	3.5
200.3894	27.02	-1.16	85517.300	5.5	135404.000	4.5
200.3907	18.01	-1.63	160239.350	1.5	210125.700	2.5
200.3908	26.01	-2.17	13673.210	1.5	63559.560	.5
200.3910	24.01	-1.39	20512.750	5.5	70399.040	5.5
200.3932	10.01	-3.43	252953.540	1.5	302893.280	2.5
200.3954	17.02	-1.47	151879.900	1.5	201765.100	2.5
200.3955	24.01	-2.64	25035.640	.5	74920.800	.5
200.4012	28.01	-1.76	67880.160	2.5	117763.910	1.5
200.4048	26.00	-9.01	704.003	2.0	50586.857	3.0
200.4068	23.01	-3.29	16421.510	4.0	66303.880	3.0
200.4080	25.01	-2.63	34761.810	5.0	84643.860	6.0
200.4092	24.01	-3.51	31351.150	2.5	81232.910	2.5
200.4094	24.01	-1.88	20512.750	5.5	70394.460	4.5
200.4094	28.02	-2.37	61339.200	4.0	111220.900	3.0
200.4190	25.01	-3.76	14593.820	3.0	64473.130	3.0
200.4192	24.01	-4.26	20024.180	3.5	69903.460	3.5
200.4195	24.01	-2.78	20519.850	4.5	70399.040	5.5
200.4229	25.01	-1.68	32856.950	3.0	82735.290	2.0
200.4232	10.01	-3.52	252953.540	1.5	302893.100	.5
200.4255	24.01	-3.75	25043.100	1.5	74920.800	.5
200.4268	28.01	-1.75	23108.280	2.5	72985.650	1.5
200.4278	26.02	-1.54	84671.870	3.0	134549.000	3.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
200.4283	27.02	-1.27	77121.100	4.5	126998.100	4.5
200.4305	25.01	-1.73	32858.840	2.0	82735.290	2.0
200.4318	24.01	-3.17	20518.330	3.5	70394.460	4.5
200.4364	18.01	-2.05	159393.310	1.5	209268.310	1.5
200.4370	28.01	-2.80	58493.210	2.5	108368.050	2.5
200.4379	24.01	-2.02	20519.850	4.5	70394.460	4.5
200.4502	26.01	-7.29	23317.600	2.5	73189.160	1.5
200.4545	25.01	-1.95	38901.800	4.0	88772.300	5.0
200.4570	9.02	-4.38	416168.300	1.5	466038.170	2.5
200.4576	25.01	-1.68	37847.900	2.0	87717.620	3.0
200.4577	27.01	-3.75	19189.900	4.0	69059.590	3.0
200.4670	25.02	-1.01	85173.880	1.5	135041.250	1.5
200.4685	10.03	-1.59	643239.000	.5	693106.000	.5
200.4707	25.01	-3.13	37851.150	3.0	87717.620	3.0
200.4783	23.01	.04	20363.220	6.0	70227.800	5.0
200.4828	10.01	-1.99	252953.540	1.5	302893.980	1.5
200.4854	11.02	-1.03	416910.200	.5	466773.000	1.5
200.4862	12.02	-1.33	425640.300	2.0	475502.900	1.0
200.4866	25.01	-5.17	14593.820	3.0	64456.330	2.0
200.4880	23.01	-4.73	36.050	1.0	49898.220	2.0
200.4914	18.01	-1.20	157233.930	3.5	207095.230	2.5
200.4934	26.02	-1.11	69836.830	3.0	119697.640	2.0
200.4954	24.00	-2.31	8307.570	4.0	58167.890	4.0
200.4972	26.02	-3.42	69837.760	2.0	119697.640	2.0
200.4974	26.01	-3.94	26055.400	2.5	75915.210	2.5
200.4991	24.02	-2.59	109943.900	5.0	159803.300	4.0
200.5051	11.02	-3.60	367052.300	1.5	416910.200	.5
200.5083	26.02	-1.53	66522.950	2.0	116380.070	1.0
200.5141	9.02	-3.29	441276.720	2.5	491132.380	3.5
200.5144	25.01	-1.28	32856.950	3.0	82712.550	3.0
200.5177	26.02	-4.53	135096.840	3.0	184951.620	3.0
200.5180	11.02	-1.47	415173.200	1.5	465027.900	1.5
200.5209	26.02	-2.23	132564.710	5.0	182418.700	4.0
200.5211	25.02	-1.98	90440.500	4.5	140294.440	3.5
200.5218	23.02	-2.11	49327.740	2.5	99181.500	1.5
200.5220	25.01	-2.62	32858.840	2.0	82712.550	3.0
200.5224	11.02	-1.69	367561.900	.5	417415.500	1.5
200.5293	26.02	-2.05	139827.170	4.0	189679.070	3.0
200.5313	26.01	-3.14	15844.710	4.5	65696.110	4.5
200.5333	11.02	-1.47	444748.100	1.5	494599.000	2.5
200.5345	26.00	-1.87	0.000	4.0	49850.610	3.0
200.						

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
200.7417	23.01	-4.99	2968.220	4.0	52767.360	3.0	201.0463	26.02	-3.80	132104.940	2.0	181828.660	2.0
200.7435	24.01	-1.63	20518.330	3.5	70317.040	2.5	201.0480	21.02	.60	62575.900	1.5	112299.200	2.5
200.7439	26.01	-1.48	13474.430	2.5	63273.030	2.5	201.0493	26.00	-4.92	7985.783	2.0	57708.760	2.0
200.7493	23.02	-3.14	91710.430	3.5	141507.700	3.5	201.0529	26.02	-1.08	82382.870	3.0	132104.940	2.0
200.7500	27.02	-1.74	56794.800	1.5	106591.900	1.5	201.0585	26.02	-3.74	132659.170	4.0	182379.860	5.0
200.7560	26.01	-4.98	25805.320	4.5	75600.930	3.5	201.0593	27.02	-.92	76518.900	5.5	126239.400	4.5
200.7576	27.00	-4.77	816.000	3.5	50611.220	3.5	201.0650	77.00	1.10	0.000	0.0	49735.160	0.0
200.7609	24.02	-3.45	109237.400	1.0	159031.600	2.0	201.0698	26.01	-.32	20805.830	4.5	70523.730	3.5
200.7617	12.02	-.34	534776.900	2.0	584571.100	2.0	201.0722	26.02	-3.04	89907.850	4.0	139625.170	4.0
200.7653	23.01	-1.47	18353.890	3.0	68147.200	4.0	201.0722	26.02	-.65	89907.850	5.0	139625.170	4.0
200.7657	27.00	-3.88	3482.820	4.5	53276.020	4.5	201.0731	24.01	-5.10	19631.280	1.5	69348.360	1.5
200.7661	27.01	-3.94	18031.500	2.0	67824.600	2.0	201.0766	28.01	-1.99	68156.570	1.5	117872.780	2.5
200.7679	28.00	-.62	1332.153	3.0	51124.800	3.0	201.0778	29.01	-4.40	68447.570	3.0	118163.500	2.0
200.7682	25.01	-3.54	33278.390	3.0	83070.970	2.0	201.0808	23.01	-8.49	3162.800	5.0	52877.990	5.0
200.7706	26.01	-1.34	13673.210	1.5	63465.190	1.5	201.0816	26.01	-2.74	22637.190	4.5	72352.170	3.5
200.7722	23.01	-4.69	106.630	2.0	49898.220	2.0	201.0822	25.01	-4.71	36274.290	2.0	85989.120	2.0
200.7746	24.03	-4.76	183453.000	5.5	233244.000	4.5	201.0837	22.01	-3.29	20891.880	3.5	70606.330	2.5
200.7832	26.02	-1.88	137209.730	4.0	186998.600	4.0	201.0907	25.02	.01	94906.450	.5	144619.190	1.5
200.7851	26.02	-.34	66591.680	1.0	116380.070	1.0	201.0914	25.01	-3.64	22939.350	2.5	72651.910	3.5
200.7875	30.02	-3.64	235623.900	3.0	285411.700	3.0	201.0952	25.01	-2.11	15844.710	1.5	65556.340	4.5
200.7888	25.01	-2.78	36274.290	2.0	80601.750	3.0	201.0973	25.01	-3.55	39808.140	3.0	89519.250	2.0
200.7907	12.02	-1.49	534776.900	2.0	584563.900	3.0	201.0993	14.00	-3.38	223.157	2.0	49933.775	3.0
200.7966	26.02	-3.79	132659.170	4.0	126444.700	3.0	201.1041	10.01	-4.59	279137.620	3.5	328847.050	4.5
200.8008	28.02	-3.42	83033.800	2.0	132818.300	2.0	201.1043	28.01	-4.78	72375.420	1.5	122084.790	1.5
200.8067	26.02	-4.30	150654.900	3.0	200437.940	2.0	201.1060	26.01	-2.21	16369.390	3.5	66078.340	2.5
200.8070	74.01	2.58	4678.136	0.0	54477.197	0.0	201.1072	28.01	-2.99	56424.490	1.5	106133.140	1.5
200.8094	9.02	-4.69	441385.880	1.5	491168.250	2.5	201.1093	24.01	-4.68	19798.010	2.5	69506.160	3.5
200.8096	26.02	-4.73	135279.040	2.0	185061.350	1.0	201.1099	17.02	-2.93	209182.800	1.5	258890.800	1.5
200.8111	28.01	-1.98	67880.160	2.5	117662.110	1.5	201.1138	18.01	-3.21	159706.460	.5	209413.480	1.5
200.8169	25.01	-2.98	36427.890	0.0	86208.400	1.0	201.1161	24.01	-2.45	0.000	2.5	49706.470	2.5
200.8206	27.01	-1.48	21624.400	5.0	71404.000	6.0	201.1170	25.01	-4.19	31514.350	4.0	81220.580	3.0
200.8275	23.02	-3.21	91710.430	3.5	141488.320	4.5	201.1185	25.01	-4.33	39813.380	2.0	89519.250	2.0
200.8279	27.00	-6.31	1406.840	2.5	51184.630	3.5	201.1196	23.03	-.52	96412.100	2.0	146117.700	1.0
200.8295	27.00	-4.93	816.000	3.5	50593.380	4.5	201.1223	23.01	-7.13	2687.010	2.0	52391.940	3.0
200.8350	9.04	-.32	784771.000	2.5	834547.000	1.5	201.1227	28.01	-2.13	72375.420	1.5	122080.250	2.5
200.8431	11.02	.21	444825.000	2.5	494599.000	2.5	201.1228	28.01	-2.87	53037.930	2.5	102742.740	1.5
200.8443	14.00	-3.87	77.115	1.0	49850.830	2.0	201.1267	26.02	-2.04	73849.100	1.0	123552.950	1.0
200.8469	26.02	-.55	66591.680	1.0	116364.760	0.0	201.1297	25.02	-.42	71564.210	1.5	121267.320	2.5
200.8487	26.02	-1.77	89907.850	4.0	139680.470	3.0	201.1297	27.02	-2.79	82920.700	3.5	132623.800	3.5
200.8492	27.02	-2.90	83938.900	3.5	133711.400	2.5	201.1370	24.01	-3.63	31531.620	1.5	81232.910	2.5
200.8553	26.02	-2.90	136532.450	2.0	186303.440	3.0	201.1451	25.00	-4.56	17282.000	3.5	66981.300	3.5
200.8553	27.02	-1.75	77121.100	4.5	126892.100	3.5	201.1474	26.01	-5.48	23317.600	2.5	73016.330	3.5
200.8557	26.00	-.29	415.932	3.0	50186.814	2.0	201.1524	27.01	-.36	0.000	4.0	49697.500	4.0
200.8587	20.02	-4.93	324110.240	4.0	373880.370	3.0	201.1536	27.01	-4.69	11651.310	2.0	61348.500	1.0
200.8610	28.01	-4.69	72375.420	1.5	122144.990	2.5	201.1542	26.02	-.12	82382.870	3.0	132079.910	3.0
200.8652	25.02	-1.56	94850.660	1.5	144619.190	1.5	201.1592	25.02	-.55	71395.270	.5	121091.080	1.5
200.8697	25.02	-1.96	86654.070	4.5	136421.500	5.5	201.1614	23.01	-4.80	36.050	1.0	49731.320	2.0
200.8748	26.02	-2.30	136612.780	4.0	186378.940	4.0	201.1633	27.02	-.02	77622.900	4.5	127317.700	3.5
200.8770	12.02	.35	534923.600	3.0	584689.200	4.0	201.1665	26.02	-1.10	82410.940	2.0	132104.940	2.0
200.8780	25.01	-3.23	31514.350	4.0	81279.710	4.0	201.1671	27.01	-1.59	22009.230	4.0	71703.100	5.0
200.8823	12.02	-1.00	534923.600	3.0	584687.900	3.0	201.1697	26.01	-4.25	20830.520	2.5	70523.730	3.5
200.8872	10.01	-4.06	254165.010	1.5	303928.100	.5	201.1719	25.01	-3.26	39826.570	1.0	89519.250	2.0
200.8886	27.00	-2.86	816.000	3.5	50578.730	3.5	201.1749	25.01	-3.41	14781.190	2.0	64473.130	3.0
200.8924	9.02	-4.36	441406.460	3.5	491168.250	2.5	201.1775	24.02	-2.81	50408.200	5.0	100099.500	4.0
200.9012	26.02	-3.21	151534.130	3.0	201293.750	2.0	201.1801	26.02	-3.60	136612.780	4.0	186303.440	3.0
200.9016	26.02	-4.23	132659.170	4.0	182418.700	4.0	201.1831	28.02	-2.86	131792.400	4.0	181482.300	4.0
200.9024	26.01	-4.70	22409.820	.5	72169.150	1.5	201.1847	28.01	-3.37	51557.850	3.5	101247.370	2.5
200.9043	26.02	-3.50	151534.900	2.0	201293.750	2.0	201.1854	23.01	-6.76	208.890	3.0	49898.220	2.0
200.9092	25.01	-2.52	39813.380	2.0	89571.030	3.0	201.1856	23.01	-9.32	2968.220	4.0	52657.510	4.0
200.9115	26.02	-4.25	151536.680	1.0	201293.750	2.0	201.1880	23.02	-4.15	106441.310	4.5	156130.000	4.5
200.9128	14.02	-4.70	204828.060	3.0	254584.800	3.0	201.1887	26.02	-.22	84671.870	3.0	134360.400	4.0
200.9128	14.02	-.81	204828.060	3.0	254584.800	4.0	201.1916	11.02	.44	414281.000	2.5	463966.800	3.5
200.9136	14.02	-.97	204828.060	3.0	254584.600	4.0	201.1921	25.01	-.85	33248.320	4.0	82936.010	3.0
200.9182	28.01	-3.06	67031.020	.5	116786.420	.5	201.2000	79.00	.98	9114.300	0.0	58816.089	0.0
200.9183	25.02	-1.87	88880.080	2.5	138635.460	2.5	201.2016	26.02	-.99	86847.110	2.0	136532.450	2.0
200.9190	33.00	1.19	18551.230	0.0	68322.531	0.0	201.2040	26.02	-4.72	130040.560	7.0	179725.310	6.0
200.9268	29.01	-2.55	68730.720	4.0	118484.000	3.0	201.2096	25.01	-.66	33147.390	5.0	82830.750	4.0
200.9272	27.00	-4.75	1406.840	2.5	51160.030	2.5	201.2100	24.00	-7.24	7593.160	2.0	57276.420	3.0
200.9273	56.01	-1.99	20261.562	0.0	70030.807	0.0	201.2135	24.01	-2.11	25035.640	.5	74718.050	1.5
200.9288	26.00	-3.01	704.003	2.0	50456.790	3.0	201.2144	23.02	-2.77	92052.550	4.5	141734.730	5.5
200.9340	24.02	-3.07	50089.200	4.0	99840.700	3.0	201.2147	28.01	-.82	66579.710	1.5	116261.810	.5
200.9396	26.02	-3.86	132079.910	3.0	181830.020	3.0	201.2147	10.01	-2.41	254292.190	.5	303974.290	1.5
200.9411	26.02	-2.33	132659.170	4.0	182408.910	3.0	201.2222	26.01	-1.57	22939.350	2.5	72619.610	2.5
200.9451	76.02	-6.42	132079.910	3.0	181828.660	2.0	201.2230	24.01	-3.79	19798.010	2.5	69478.060	2.5
200.9457	26.03	-3.57	138336.300	2.5	188084.900	1.5	201.2242	26.02	-.14	89783.590	4.0	139463.360	5.0
200.9468	25.01	-1.80	32856.950	3.0	82605.290	4.0	201.2248	27.02	-4.61	123123.100	1.5	172802.700	2.5
200.9529	29.01	-2.22	95888.770	2.0	135135.600	1.0	201.2261	24.02	-.40	65890.900	3.0	115570.200	4.0
200.9529	20.02	-4.72	323655.060	2.0	373401.870	3.0	201.2301	25.01	-2.60	36274.290	2.0	85952.600</	

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
201.3216	23.01	-3.24	16340.970	3.0	65996.700	3.0
201.3230	16.01	-3.90	114804.110	2.5	164459.500	2.5
201.3234	26.00	-4.45	7985.783	2.0	57661.060	3.0
201.3258	26.01	-1.42	13904.870	.5	63559.560	.5
201.3263	22.01	-1.52	20951.770	2.5	70606.350	2.5
201.3278	24.02	-3.33	109721.400	3.0	159375.600	3.0
201.3290	27.01	-2.79	19189.900	4.0	68843.800	4.0
201.3320	33.00	1.05	18551.230	0.0	68220.433	0.0
201.3336	24.00	-8.81	0.000	3.0	49652.760	2.0
201.3439	24.00	-5.78	0.000	3.0	49650.220	3.0
201.3477	24.02	-3.47	110154.000	4.0	159803.300	4.0
201.3519	25.02	-1.52	71831.980	2.5	121480.240	3.5
201.3550	12.02	-1.51	534923.600	3.0	584571.100	2.0
201.3565	26.02	-3.14	83138.230	5.0	132785.360	4.0
201.3573	7.01	-2.63	164610.760	1.0	214257.690	1.0
201.3600	24.01	-2.54	0.000	2.5	49646.250	3.5
201.3607	17.02	-1.19	205037.300	1.5	254683.400	2.5
201.3661	26.01	-1.60	26932.740	.5	76577.500	.5
201.3707	25.01	-4.43	29869.110	2.0	79512.730	3.0
201.3714	26.01	-3.27	16369.390	3.5	66012.830	4.5
201.3725	16.01	-4.23	114804.110	2.5	164447.300	2.5
201.3743	26.02	-2.19	87901.870	3.0	137544.600	2.0
201.3800	26.02	-4.38	151536.680	1.0	201178.010	1.0
201.3809	24.02	-2.26	66627.800	4.0	115668.900	5.0
201.3819	23.01	-6.86	2604.820	1.0	52245.680	2.0
201.3827	25.02	-3.22	86051.500	2.5	135692.170	3.5
201.3842	12.02	-1.22	534923.600	3.0	584563.900	3.0
201.3850	26.02	-4.31	151637.910	0.0	201178.010	1.0
201.3879	25.01	-1.78	33278.390	3.0	82917.780	2.0
201.3886	27.02	.12	77411.600	5.5	127050.800	4.5
201.3927	13.01	-3.06	95546.800	3.0	145185.000	2.0
201.3958	13.02	-1.05	167612.750	2.5	217250.170	3.5
201.3971	13.01	-3.42	95547.900	2.0	145185.000	1.0
201.3971	13.01	-3.81	95547.900	2.0	145185.000	2.0
201.3983	13.02	-1.94	167613.370	3.5	217250.170	4.5
201.3983	13.02	-2.48	167613.370	3.5	217250.170	3.5
201.4008	13.01	-3.90	95548.800	1.0	145185.000	1.0
201.4008	13.01	-3.68	95548.800	1.0	145185.000	0.0
201.4008	13.01	-4.98	95548.800	1.0	145185.000	2.0
201.4019	10.01	-3.50	254292.190	.5	303928.100	.5
201.4065	23.02	-1.78	49805.290	3.5	99440.100	2.5
201.4103	20.02	-2.06	227388.560	2.0	277022.400	3.0
201.4122	26.01	-2.05	22409.820	.5	72043.210	1.5
201.4124	26.02	-2.73	132785.360	4.0	182418.700	4.0
201.4170	26.02	-2.92	151534.130	3.0	201166.350	3.0
201.4182	23.01	-1.07	20280.190	5.0	69912.100	4.0
201.4183	25.01	-3.58	32787.600	4.0	82419.480	3.0
201.4198	23.01	-1.62	19166.190	1.0	68797.700	2.0
201.4200	23.01	-1.03	14655.630	5.0	64287.100	5.0
201.4201	26.02	-3.59	151534.900	2.0	201166.350	2.0
201.4207	23.03	-1.53	96798.000	3.0	146429.300	2.0
201.4216	23.01	-3.25	12545.150	4.0	62176.240	4.0
201.4231	28.00	-4.33	1713.080	1.0	51343.800	2.0
201.4257	26.02	-3.34	151534.130	3.0	201164.210	2.0
201.4261	26.00	-4.78	415.932	4.0	50045.900	2.0
201.4272	9.03	-2.63	456884.300	1.0	506514.000	1.0
201.4278	24.00	-1.12	7927.470	2.0	57557.030	3.0
201.4288	26.02	-3.41	151534.900	2.0	201164.210	2.0
201.4308	18.01	-1.75	145668.800	1.5	195297.610	1.5
201.4319	26.02	-2.38	151537.800	4.0	201166.350	3.0
201.4329	28.02	-3.68	84604.800	1.0	134233.100	2.0
201.4347	26.00	-4.03	0.000	4.0	49627.861	4.0
201.4354	14.00	-4.46	223.157	2.0	49850.830	2.0
201.4360	26.02	-3.75	151536.680	1.0	201164.210	2.0
201.4361	24.00	-8.13	7593.160	2.0	57220.670	2.0
201.4365	10.01	-2.27	252798.480	.5	302425.870	1.5
201.4370	26.02	-4.25	132785.360	4.0	182418.700	4.0
201.4393	23.01	-3.17	19132.690	2.0	68759.400	1.0
201.4414	28.02	-2.54	134233.100	2.0	183859.300	3.0
201.4420	26.02	-4.89	87901.870	3.0	137527.920	4.0
201.4438	23.01	-2.75	15533.000	5.0	66158.600	4.0
201.4470	25.01	-3.15	36364.300	1.0	85989.120	2.0
201.4475	23.01	-4.27	106.630	2.0	49731.320	2.0
201.4477	26.01	-2.74	22637.190	4.5	72261.830	5.5
201.4508	26.02	-2.66	83161.480	4.0	132785.360	4.0
201.4522	26.02	-2.71	132785.360	4.0	182408.910	3.0
201.4527	25.01	-4.72	29889.310	3.0	79512.730	3.0
201.4627	27.00	-4.15	3482.820	4.5	53103.780	3.5
201.4633	24.02	-1.13	66222.700	5.0	115843.500	6.0
201.4638	24.00	-6.99	0.000	3.0	49620.690	4.0
201.4639	25.01	-4.75	39808.140	3.0	89428.800	3.0
201.4648	26.02	-4.41	130256.270	5.0	179876.710	4.0
201.4660	28.01	-1.79	66571.340	2.5	116191.470	2.5
201.4686	28.02	-3.47	82172.900	3.0	131792.400	4.0
201.4695	26.01	-3.79	25981.650	3.5	75600.930	3.5
201.4747	25.01	-1.61	31661.720	3.0	81279.710	4.0
201.4756	26.02	-1.34	86847.110	2.0	136464.900	1.0
201.4761	9.01	-1.86	240092.550	2.0	289710.200	2.0
201.4788	26.02	-1.29	73935.960	0.0	123552.950	1.0
201.4861	25.02	-2.41	85173.880	1.5	134789.080	.5
201.4869	27.02	-3.81	77383.100	3.5	126998.100	4.5
201.4869	23.02	-3.90	97512.000	1.5	147127.000	2.5
201.4918	9.01	-1.11	240092.550	2.0	289706.330	3.0
201.4922	14.01	-1.12	76665.610	.5	126279.300	.5
201.4950	24.03	-1.74	110700.000	3.5	160313.000	2.5
201.4967	18.01	-4.90	145668.800	1.5	195281.380	.5
201.5000	28.01	-1.10	66579.710	1.5	116191.470	2.5
201.5022	23.01	-1.42	18293.870	2.0	67905.100	3.0
201.5069	26.02	-6.22	82494.880	1.0	132104.940	2.0
201.5110	42.01	1.80	0.000	0.0	49625.083	0.0
201.5121	27.01	-3.63	11651.310	2.0	61260.100	2.0
201.5180	28.01	-1.64	68156.570	1.5	117763.910	1.5
201.5201	26.02	-1.67	73849.100	1.0	123455.920	0.0
201.5299	26.00	-4.28	0.000	4.0	49604.402	5.0
201.5314	18.01	-1.72	157673.320	2.5	207277.350	1.5
201.5324	25.02	-2.40	94707.200	4.5	144311.000	5.5
201.5414	26.02	.23	89907.850	4.0	139509.440	5.0
201.5414	26.02	-1.12	89907.850	5.0	139509.440	5.0
201.5429	7.01	-3.93	164610.760	1.0	214211.960	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
201.5434	27.01	-3.82	18338.500	1.0	67939.600	2.0
201.5486	26.01	-1.00	13673.210	1.5	63273.030	2.5
201.5554	23.01	-1.00	19161.270	0.0	68759.400	1.0
201.5555	28.02	-2.72	82194.300	5.0	131792.400	4.0
201.5556	24.00	-6.15	0.000	3.0	49598.080	2.0
201.5576	24.02	-3.62	109434.200	2.0	159031.800	2.0
201.5583	29.01	-1.52	23998.220	1.0	73595.640	1.0
201.5596	27.02	-1.87	78927.800	3.5	128524.900	2.5
201.5624	28.01	-2.61	66571.340	2.5	116167.760	1.5
201.5655	23.01	-1.26	14461.730	3.0	64057.390	3.0
201.5678	24.01	-1.86	20512.750	5.5	70107.830	4.5
201.5686	27.01	-1.82	22414.500	3.0	72009.400	4.0
201.5702	26.02	-4.89	132785.360	4.0	182379.860	5.0
201.5740	26.02	-1.69	84671.870	3.0	134265.420	2.0
201.5742	25.01	-4.60	29919.220	2.0	79512.730	3.0
201.5745	24.00	-6.00	7593.160	2.0	57186.600	3.0
201.5754	23.01	-1.44	19166.190	1.0	68759.400	1.0
201.5766	28.01	-2.26	71457.740	3.5	121050.660	2.5
201.5783	29.02	-3.99	147805.900	3.5	197398.400	2.5
201.5832	27.02	-1.06	56373.800	2.5	105965.100	2.5
201.5848	13.01	-2.21	95348.200	0.0	144939.100	1.0
201.5856	27.02	-1.74	76791.100	1.5	126381.800	1.5
201.5905	24.01	-3.22	20518.330	3.5	70107.830	4.5
201.5905	27.01	-3.98	11651.310	2.0	61240.800	3.0
201.5914	25.01	-2.31	29869.110	2.0	79458.380	2.0
201.5953	26.01	-3.09	23031.300	1.5	72619.610	2.5
201.5956	23.01	-3.35	12545.150	4.0	62133.390	3.0
201.5964	28.01	-2.67	66579.710	1.5	116167.760	1.5
201.5967	24.01	-2.15	20519.850	4.5	70107.830	4.5
201.6016	28.01	-3.07	51557.850	3.5	101144.630	3.5
201.6027	27.02	-1.24	77411.600	5.5	126998.100	4.5
201.6039	26.03	-4.11	138841.300	3.5	188427.500	2.5
201.6076	13.01	-1.85	95546.800	3.0	145132.100	4.0
201.6077	26.01	-1.03	22939.350	2.5	72524.620	1.5
201.6138	18.01	-2.74	158428.030	.5	208011.810	1.5
201.6153	28.01	-3.68	56424.490	1.5	106007.890	2.5
201.6162	23.01	-6.26	2808.760	3.0	52391.940	3.0
201.6169	25.02	-1.19	89052.440	3.5	138635.460	2.5
201.6193	25.01	-1.80	33248.320	4.0	82830.750	4.0
201.6206	13.01	-2.28	95546.800	3.0	145128.900	3.0
201.6215	26.02	-2.91	136797.050	3.0	186378.940	4.0
201.6247	25.02	-3.92	145455.100	7.5	195036.200	6.5
201.6247	25.02	-4.88	145455.100	7.5	195036.200	6.5
201.6251	13.01	-1.37	95547.900	2.0	145128.900	3.0
201.6265	25.01	-3.08	44138.960	1.0	93719.600	0.0
201.6304	13.01	-3.45	95546.800	3.0	145126.500	2.0
201.6317	28.01	-4.83	79923.880	4.5	129503.240	4.5
201.6333	25.02	-1.50	71395.270	.5	120974.250	.5
201.6339	28.01	-4.32	68735.980	2.5	118314.820	2.5
201.6345	18.01	-2.91	158167.710	1.5	207746.380	2.5
201.6347	25.00	-4.26	17052.290	4.5	66630.920	4.5
201.6348	13.01	-1.91	95547.900	2.0	145126.500	2.0
201.6358	28.00	-2.99	879.813	2.0	50458.187	1.0
201.6385	13.01	-1.18	95548.800	1.0	145126.500	2.0
201.6405	12.02	-2.98	534776.900	2.0	584354.100	2.0
201.6439	23.01	-8.88	2604.820	1.0	52181.180	1.0
201.6470	26.02	-1.20	137423.000	3.0	186998.600	4.0
201.6478	17.02	-3.46	205037.300	1.5	254612.700	1.5
201.6487	23.01	-2.72	16421.510	4.0	65996.700	3.0
201.6505	23.01	-1.23	14556.090	4.0	64130.840	4.0
201.6521	28.01	-1.58	66571.340	2.5	116145.690	3.5
201.6557	23.01	-2.48	14655.630	5.0	64229.100	5.0
201.6575	24.00	-7.52	0.000	3.0	49573.030	4.0
201.6576	25.00	-4.24	17282.000	3.5	66855.000	4.5
201.6636	8.01	-1.52	208392.270	1.5	257963.800	2.5
201.6654	14.01	.19	76665.610	.5	126236.700	1.5
201.6706	26.02	-1.18	88694.670	5.0	138264.470	6.0
201.6736	25.01	-5.96	29889.310	3.0	79458.380	2.0
201.6747	12.02	-1.66	534776.900	2.0	584345.700	1.0
201.6767	27.02	-1.70	82920.700	3.5	132489.000	2.5
201.6780	29.02	-1.54	147805.900	3.5	197373.900	3.5
201.6824	25.02	-1.52	100054.100	.5	149621.000	.5
201.6898	29.01	-1.42	12928.600	3.0	71493.680	2.0
201.6907	23.01	-3.41	14461.730	3.0	64026.606	4.0
201.6910	24.01	-3.15	0.000	2.5	49564.800	1.5
201.7002	25.01	-3.17	32856.950	3.0	82419.480	3.0
201.7021	26.01	-2.64	16369.390	3.5	65931.460	3.5
201.7030	18.01	-1.87	159706.460	.5	209268.310	1.5
201.7048	25.01	-1.66	31760.930	2.0	81322.330	1.0
201.7079	25.01	-2.86	32858.840	2.0	82419.480	3.0
201.7092	26.01	-1.37	13904.870	.5	63465.190	1.5
201.7106	23.02	-2.46	91710.630	3.5	141270.400	3.5
201.7152	25.01	-1.73	31661.720	3.0	81220.580	3.0
201.7159	23.01	-6.03	2687.010	2.0	52245.680	2.0
201.7166	26.00	-3.28	0.000	4.0	49558.500	4.0
201.7179	28.01	-2.99	68735.980	2.5	118294.170	3.5
201.7207	9.01	-1.38	240152.710	1.0	289710.200	2.0
201.7256	26.01	-3.85	21430.390	5.5	70986.690	6.5
201.7275	24.01	-3.29	30864.610	2.5	84020.430	2.5
201.7288	26.02	-1.74	89907.850	4.0	139463.360	5.0
201.7288	26.02	-1.60	89907.850	5.0	139463.360	5.0
201.7303	25.01	-3.96	14901.180	1.0	64456.330	2.0
201.7305	27.02	-2.11	57036.800	.5	106591.900	1.5
201.7322	23.01	-2.15	12621.570	5.0	62176.240	4.0
201.7348	26.00	-4.16	8154.713	1.0	57708.760	2.0
201.7416	25.01	-2.60	33278.390	3.0	82830.750	4.0
201.7440	29.01	-3.49	88362.030	2.0	137913.800	1.0
201.7463	23.01	-2.29	18353.890	3.0	67905.100	3.0
201.7498	24.01	-4.25	19798.010	2.5	69348.360	1.5
201.7559	28.01	-2.77	52205.950	3.5	101754.800	2.5
201.7574	26.02	-3.70	139463.360	5.0	189011.840	4.0
201.7614	26.02	-1.43	83237.860	3.0	132785.360	4.0
201.7616	26.02	-2.56	71531.500	3.0	121078.960	3.0
201.7632	28.01	-3.90	71770.830	2.5	121317.890	3.5
201.7676	23.01	-5.45	26839.820	3.0	76385.800	3.0
201.7694	26.01	-4.89	26055.400	2.5	75600.930	3.5
201.7700	25.01	-1.70	34761.810	5.0	84307.200	4.0
201.7743	23.01	-3.99	16340.970	3.0	65885.300	2.0
201.7822	24.02	-1.76	66027.800	3.0	115570.700	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
201.7822	24.02	-2.23	119039.900	5.0	168582.300	6.0	202.0762	25.00	-4.60	17052.290	4.5	66522.620	4.5
201.7845	26.01	-1.19	22810.330	3.5	72352.170	3.5	202.0773	28.01	-4.03	17170.830	2.5	121240.900	3.5
201.7870	75.00	1.07	0.000	0.0	49557.206	0.0	202.0776	20.02	-1.10	278621.010	1.0	328090.990	2.0
201.7924	12.02	-2.02	534923.600	3.0	584463.500	4.0	202.0844	23.01	-1.58	18269.490	1.0	67737.800	2.0
201.7943	24.00	-5.39	7593.160	2.0	57132.590	1.0	202.0905	26.02	-2.70	93388.750	4.0	142855.590	4.0
201.7954	25.01	-5.57	29919.220	2.0	79458.380	2.0	202.0907	24.00	-8.56	0.000	3.0	49466.770	2.0
201.8003	15.00	-1.80	18722.650	5.5	68260.600	5.5	202.0980	28.01	-5.52	24835.930	5.5	74300.930	1.5
201.8031	25.01	-3.36	31514.350	4.0	81051.620	3.0	202.1000	25.02	-5.54	85173.880	1.5	134638.390	1.5
201.8079	26.02	-2.98	151757.670	2.0	201293.750	2.0	202.1011	25.01	-3.61	33248.320	4.0	82712.550	3.0
201.8091	25.02	-0.72	100085.200	1.5	149621.000	5.5	202.1056	26.02	-1.83	93392.450	3.0	142855.590	4.0
201.8126	18.01	-4.15	155708.020	5.5	205242.970	5.5	202.1074	28.02	-2.33	63472.600	2.0	112935.300	3.0
201.8134	25.02	-0.04	90746.060	5.5	140280.800	4.5	202.1098	24.02	-4.18	109569.700	2.0	159031.800	2.0
201.8140	76.00	1.76	0.000	0.0	49550.576	0.0	202.1110	23.01	-5.05	106.630	2.0	49568.450	3.0
201.8180	24.02	-3.10	71166.100	2.0	120699.700	3.0	202.1110	24.00	-1.71	8095.210	3.0	57557.030	3.0
201.8218	25.02	-2.38	100001.300	2.5	149533.980	1.5	202.1120	25.02	-2.66	90440.500	4.5	139902.060	5.5
201.8303	25.01	-3.48	32856.950	3.0	82387.530	3.0	202.1146	26.00	-3.36	0.000	4.0	49460.876	5.0
201.8336	25.00	-4.77	17451.520	2.5	66981.300	3.5	202.1161	15.00	-1.14	18722.650	5.5	68183.200	1.5
201.8381	25.01	-2.92	32858.840	2.0	82387.530	3.0	202.1162	25.02	-1.32	88880.080	2.5	138340.620	2.5
201.8455	25.02	-1.28	71564.210	1.5	121091.080	1.5	202.1171	25.01	-3.19	36274.290	2.0	85734.620	3.0
201.8535	24.02	-1.37	66027.800	4.0	115552.700	3.0	202.1185	26.02	-1.49	137423.000	3.0	186882.980	3.0
201.8555	28.02	-2.82	134334.900	3.0	183859.300	3.0	202.1198	25.01	-1.89	31760.930	2.0	81220.580	3.0
201.8569	26.02	-1.18	88663.870	4.0	138187.930	3.0	202.1210	83.00	0.76	0.000	0.0	49475.314	0.0
201.8580	27.02	-3.93	82363.300	4.5	131887.100	4.5	202.1217	25.02	-1.34	86051.500	2.5	135510.700	2.5
201.8609	26.02	-2.58	92523.910	5.0	142047.000	4.0	202.1233	25.02	-0.32	100054.100	5.5	149512.900	1.5
201.8636	23.01	-4.15	208.890	3.0	49731.320	2.0	202.1270	25.01	-3.54	33147.390	5.0	82605.290	4.0
201.8651	10.01	-2.45	252953.540	1.5	302475.610	5.5	202.1292	28.00	-1.66	1332.153	3.0	50789.500	4.0
201.8657	38.01	-1.84	23715.190	0.0	73253.076	0.0	202.1308	28.01	-3.54	71770.830	2.5	121227.800	2.5
201.8681	25.00	-4.11	17052.290	4.5	66573.600	5.5	202.1311	25.01	-3.89	33278.390	3.0	82735.290	2.0
201.8689	26.02	-2.72	87901.870	3.0	137423.000	3.0	202.1380	79.00	0.34	9114.300	0.0	58585.453	0.0
201.8696	20.02	-2.20	281882.240	2.0	331403.200	1.0	202.1382	23.02	-1.91	92052.550	4.5	141507.700	3.5
201.8746	26.02	-2.02	93388.750	4.0	142908.480	5.0	202.1413	26.00	-4.78	6928.266	5.0	56382.664	5.0
201.8746	24.00	-6.90	0.000	3.0	49519.720	3.0	202.1432	24.00	-7.29	0.000	3.0	49453.940	4.0
201.8754	18.01	-1.80	158730.210	2.5	208249.740	1.5	202.1434	24.01	-3.20	20024.180	3.5	69478.060	2.5
201.8778	26.01	-1.28	15844.710	4.5	55363.660	5.5	202.1491	28.02	-3.42	86646.200	2.0	136098.700	1.0
201.8792	28.02	-4.78	131500.300	5.0	181018.900	5.0	202.1507	17.02	-1.31	151879.900	1.5	201332.000	1.5
201.8805	27.00	-2.69	1406.840	2.5	50925.110	1.5	202.1509	26.02	-2.16	149285.000	3.0	198737.050	4.0
201.8820	30.02	-4.43	258171.200	5.0	307689.100	5.0	202.1522	8.01	-1.51	208346.170	5.5	257797.900	1.5
201.8820	30.02	-2.62	258171.700	5.0	307689.100	6.0	202.1559	26.02	-4.94	138691.810	1.0	188142.640	2.0
201.8825	25.01	-2.19	34910.430	4.0	84428.210	5.0	202.1581	24.01	-0.45	25033.950	3.5	74484.250	2.5
201.8926	27.02	-2.06	77472.300	2.5	126987.600	1.5	202.1613	30.02	-2.68	258239.600	4.0	307689.100	5.0
201.8935	26.02	-3.97	139509.440	5.0	189024.530	5.0	202.1621	23.01	-4.17	16340.970	3.0	65790.280	4.0
201.8947	23.01	-4.88	208.890	3.0	49723.680	4.0	202.1634	30.02	-4.15	235452.500	2.0	284901.500	2.0
201.9002	18.01	-4.18	155708.020	5.5	205221.470	1.5	202.1643	25.02	-0.26	100085.200	1.5	149533.980	1.5
201.9009	16.01	-3.48	114804.110	2.5	164317.400	1.5	202.1679	16.01	-2.81	114804.110	2.5	164252.000	1.5
201.9031	28.01	-0.38	24788.200	1.5	74300.930	1.5	202.1699	28.01	-4.97	24835.930	5.5	74283.330	5.5
201.9035	15.00	-1.10	18747.950	1.5	68260.600	5.5	202.1748	24.02	-1.77	66222.700	5.0	115668.900	5.0
201.9050	32.00	1.33	483.945	0.0	50012.188	0.0	202.1778	28.01	-3.77	71457.740	3.5	120903.200	3.5
201.9077	25.02	-0.51	100001.300	2.5	149512.900	1.5	202.1814	25.01	-0.91	32787.600	4.0	82232.180	5.0
201.9145	26.02	-4.40	132262.660	6.0	181772.590	6.0	202.1841	23.01	-2.27	18293.870	2.0	67737.800	2.0
201.9158	26.02	-2.26	136793.820	2.0	186303.440	3.0	202.1842	28.02	-4.88	134415.400	4.0	183859.300	3.0
201.9183	27.02	-2.19	77383.100	3.5	126892.100	3.5	202.1876	22.01	-3.06	10024.740	2.5	59467.810	3.5
201.9187	26.01	-2.43	20805.830	4.5	70314.740	4.5	202.1878	23.02	-5.98	42267.400	2.5	91710.430	3.5
201.9195	28.01	-2.74	70635.460	2.5	120144.170	2.5	202.1937	24.01	-1.36	20512.620	2.5	69954.200	2.5
201.9245	24.00	-6.38	7593.160	2.0	57100.660	2.0	202.1955	24.01	-4.19	25043.100	1.5	74484.250	2.5
201.9254	25.01	-6.35	29951.120	1.0	79458.380	2.0	202.2006	26.02	-4.90	138691.810	1.0	188131.700	1.0
201.9290	26.02	-2.81	136797.050	3.0	186303.440	3.0	202.2020	82.00	0.23	0.000	0.0	49455.495	0.0
201.9324	28.01	-3.99	68156.570	1.5	117662.110	1.5	202.2032	26.02	-1.94	88663.870	4.0	138103.120	4.0
201.9334	23.02	-2.63	107165.900	1.5	156671.200	2.5	202.2108	28.01	-4.22	70706.770	1.5	120144.170	2.5
201.9391	25.02	-1.18	90440.500	4.5	139944.400	3.5	202.2109	28.01	-3.38	67031.020	5.5	116468.400	1.5
201.9409	24.00	-7.37	7593.160	2.0	57096.620	1.0	202.2116	24.01	-1.88	25047.040	2.5	74484.250	2.5
201.9447	26.00	-3.70	0.000	4.0	49502.530	5.0	202.2128	23.01	-5.16	2808.760	3.0	52245.680	2.0
201.9453	26.02	-3.89	139509.440	5.0	189011.840	4.0	202.2135	25.01	-4.00	44745.460	2.0	94182.200	3.0
201.9497	23.01	-1.77	14556.090	4.0	64057.390	3.0	202.2171	24.01	-1.03	20518.330	3.5	69954.200	2.5
201.9508	25.00	-4.74	17282.000	3.5	66783.050	3.5	202.2175	23.02	-2.64	92052.550	4.5	141488.320	4.5
201.9544	28.01	-4.57	79923.880	4.5	129424.030	5.5	202.2183	29.01	-0.94	68447.570	3.0	117883.140	4.0
201.9645	26.02	-3.55	83161.480	4.0	132659.170	4.0	202.2192	25.02	0.06	17831.980	2.5	121267.320	2.5
201.9655	23.02	-2.16	49327.740	2.5	98825.190	3.5	202.2196	15.00	-0.47	18747.950	1.5	68183.200	1.5
201.9749	26.02	-4.80	147406.140	5.0	196901.270	5.0	202.2219	26.00	-2.34	415.932	3.0	49850.610	3.0
201.9749	28.01	-2.03	24788.200	1.5	74283.330	5.5	202.2241	25.01	-3.92	33278.390	3.0	82712.550	3.0
201.9754	26.00	-4.89	6928.266	5.0	56423.276	4.0	202.2247	10.03	-0.87	643672.000	1.5	693106.000	5.5
201.9766	23.01	-4.67	3162.800	5.0	52657.510	4.0	202.2258	23.02	-3.40	91710.430	3.5	141144.170	4.5
201.9773	24.00	-4.99	7593.160	2.0	57087.700	2.0	202.2284	11.02	-0.75	410987.900	3.5	460421.000	2.5
201.9788	23.01	-8.65	2687.010	2.0	52181.180	1.0	202.2350	77.00	1.23	2823.013	0.0	52270.438	0.0
201.9823	26.01	-1.73	23031.300	1.5	72524.620	1.5	202.2358	27.01	-0.43	950.300	3.0	50381.600	3.0
201.9826	26.01	-4.65	22637.190	4.5	72130.440	4.5	202.2390	12.02	-1.48	534923.600	3.0	584354.100	2.0
201.9871	24.00	-1.86	8095.210	3.0	57587.360	4.0	202.2480	26.01	-2.02	22810.330	3.5	72236.630	2.5
202.0047	26.01	-4.38	13474.430	2.5	62962.260	1.5	202.2485	27.02	-2.18	77121.100	4.5	126549.300	3.5
202.0048	27.02	-2.08	77383.100	3.5	126870.900	2.5	202.2497	27.02	-1.33	7762			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
202.3550	24.01	-5.97	25033.950	3.5	74436.140	2.5
202.3562	23.01	-1.20	20242.320	4.0	69644.200	3.0
202.3665	26.02	-3.16	139625.170	4.0	189024.530	5.0
202.3697	27.02	-2.37	77472.300	2.5	126870.900	2.5
202.3703	26.01	-1.27	23031.300	1.5	72429.740	.5
202.3772	25.01	-7.74	34910.430	4.0	84307.200	4.0
202.3783	27.02	-3.50	73726.600	2.5	123123.100	1.5
202.3810	26.02	-9.96	93512.640	4.0	142908.580	5.0
202.3815	6.01	-3.89	166967.130	.5	216362.840	.5
202.3852	27.00	-6.37	816.000	3.5	50210.800	4.5
202.3853	24.00	-1.23	8307.570	4.0	57702.360	5.0
202.3922	8.01	-8.84	228746.900	3.5	278140.000	2.5
202.3924	24.01	-3.67	25043.100	1.5	74436.140	2.5
202.3941	25.01	-7.78	31661.720	3.0	81054.350	2.0
202.3988	12.02	-1.24	535179.600	2.0	584571.100	2.0
202.4000	13.01	-4.07	95547.900	2.0	144939.100	1.0
202.4006	22.01	-3.62	9930.740	1.5	59321.790	2.5
202.4010	28.01	-1.84	53634.620	1.5	103025.580	2.5
202.4015	24.01	-4.08	20512.620	2.5	69903.460	3.5
202.4020	26.02	-2.25	88663.870	4.0	138054.590	5.0
202.4037	13.01	-4.55	95548.800	1.0	144939.100	1.0
202.4047	56.01	-3.41	0.000	0.0	49405.967	0.0
202.4053	25.01	-3.36	31661.720	3.0	81051.620	3.0
202.4054	24.01	-1.70	25033.950	3.5	74423.840	3.5
202.4086	24.01	-6.49	25047.040	2.5	74436.140	2.5
202.4091	26.00	-3.59	415.932	3.0	49804.900	3.0
202.4096	6.01	-3.69	166990.730	1.5	216379.590	1.5
202.4101	26.02	-2.09	86847.110	2.0	136235.840	1.0
202.4183	25.01	-3.14	31760.930	2.0	81147.650	2.0
202.4186	26.02	-4.94	139625.170	4.0	189011.840	4.0
202.4230	17.02	-1.63	151946.400	.5	201332.000	1.5
202.4239	28.01	-1.31	66571.340	2.5	115956.710	2.5
202.4249	24.01	-2.32	20518.330	3.5	69903.460	3.5
202.4276	23.01	-4.61	339.210	4.0	49723.680	4.0
202.4283	12.02	-9.05	535179.600	2.0	584563.900	3.0
202.4299	23.01	-3.86	18353.890	3.0	67737.800	2.0
202.4311	24.01	-2.11	20519.850	4.5	69903.460	3.5
202.4335	29.00	-4.48	0.000	0.0	49398.938	0.0
202.4385	24.00	-3.39	7750.780	0.0	57132.590	1.0
202.4435	23.01	-4.89	26839.820	3.0	76220.400	2.0
202.4451	27.02	-4.43	77121.100	4.5	126501.300	5.5
202.4457	28.01	-3.62	67694.640	2.5	117074.700	3.5
202.4475	27.02	-1.92	79425.300	2.5	128804.900	1.5
202.4519	15.00	-5.57	18747.950	1.5	68126.500	.5
202.4545	24.02	-2.94	71321.800	3.0	120699.700	3.0
202.4582	28.01	-7.76	66579.710	1.5	115956.710	2.5
202.4590	24.01	-2.74	25047.040	2.5	74423.840	3.5
202.4656	27.02	-2.40	77622.900	4.5	126998.100	4.5
202.4682	25.02	-5.51	86486.770	1.5	135861.320	1.5
202.4769	18.01	-2.41	159393.310	1.5	208765.770	.5
202.4779	25.02	-2.59	86486.770	1.5	135858.960	2.5
202.4783	6.01	-3.19	166990.730	1.5	216362.840	.5
202.4829	23.01	-2.59	14655.630	5.0	64026.600	4.0
202.4840	24.00	-7.97	0.000	3.0	49370.700	3.0
202.4842	26.02	-2.27	149285.000	3.0	198655.660	3.0
202.4919	26.02	-2.48	137423.000	3.0	186791.780	2.0
202.4920	23.01	-4.28	16421.510	4.0	65790.280	4.0
202.4976	28.01	-3.61	70635.460	2.5	120002.860	3.5
202.5031	28.01	-3.28	70778.120	3.5	120144.170	2.5
202.5040	25.02	-5.54	86578.240	3.5	135944.080	4.5
202.5080	6.01	-2.88	167035.710	2.5	216400.570	2.5
202.5103	30.02	-2.38	235452.500	2.0	284816.800	1.0
202.5184	18.01	-1.53	145668.800	1.5	195031.120	2.5
202.5217	19.02	-1.33	192082.000	2.5	241443.500	2.5
202.5251	28.02	-4.96	133692.000	5.0	183052.700	4.0
202.5283	26.02	-7.76	88694.670	5.0	138054.590	5.0
202.5297	23.01	-6.07	208.890	3.0	49568.450	3.0
202.5357	18.01	-2.33	160239.350	1.5	209597.450	1.5
202.5382	11.02	-1.78	417415.500	1.5	466773.000	1.5
202.5389	28.00	-5.53	1332.153	3.0	50689.490	2.0
202.5404	25.01	-3.74	33248.320	4.0	82605.290	4.0
202.5417	25.01	-1.39	32836.400	1.0	82193.040	2.0
202.5427	27.02	-3.05	82920.700	3.5	132277.100	3.5
202.5455	11.02	-1.20	418418.100	1.5	467773.800	2.5
202.5478	23.01	-3.74	14461.730	3.0	63816.900	3.0
202.5489	29.01	-5.59	23998.220	1.0	73353.120	2.0
202.5497	25.02	-9.04	88880.080	2.5	138234.790	1.5
202.5510	30.01	1.97	0.000	0.0	49370.282	0.0
202.5517	10.01	-2.54	252953.540	1.5	302307.750	2.5
202.5558	10.01	-2.63	254165.010	1.5	303518.210	1.5
202.5566	26.02	-9.99	86847.110	2.0	136200.130	3.0
202.5585	23.02	-2.48	92052.550	4.5	141405.100	5.5
202.5609	24.01	-1.80	0.000	2.5	49351.960	2.5
202.5661	27.00	-5.18	1809.330	1.5	51160.030	2.5
202.5719	26.02	-1.22	117950.320	4.0	167299.600	5.0
202.5724	28.01	-3.77	68965.650	1.5	118314.820	2.5
202.5733	24.00	-4.44	7927.470	2.0	57276.420	3.0
202.5738	25.02	-6.61	86520.940	2.5	135869.760	3.5
202.5756	25.03	-4.31	137930.100	5.0	187278.500	5.0
202.5759	11.02	-4.64	367561.900	.5	416910.200	.5
202.5764	27.01	-7.70	0.000	4.0	49348.200	4.0
202.5791	8.01	-2.26	208346.170	.5	257693.700	.5
202.5792	24.02	-3.39	66222.700	5.0	115570.200	4.0
202.5809	11.02	-8.85	414281.000	2.5	463628.100	2.5
202.5824	12.00	-9.99	0.000	0.0	49346.729	1.0
202.5859	22.01	-3.59	9975.920	1.5	59321.790	2.5
202.5861	24.00	-1.30	7750.780	0.0	57096.620	1.0
202.5905	28.01	-3.20	71770.830	2.5	121115.590	1.5
202.5922	29.01	-2.31	71531.500	3.0	120875.850	2.0
202.5941	6.01	-3.16	167035.710	2.5	216379.590	1.5
202.5946	24.00	-3.63	7810.820	1.0	57154.590	0.0
202.5946	18.03	-3.00	250219.450	.5	299563.200	.5
202.5953	26.02	-1.03	90483.590	3.0	139827.170	4.0
202.5979	26.02	-1.95	93512.640	4.0	142855.590	4.0
202.6023	26.00	-4.03	704.003	2.0	50045.900	2.0
202.6043	26.02	-4.33	88923.070	6.0	138264.470	6.0
202.6055	20.02	-4.25	278621.010	1.0	327962.110	1.0
202.6068	26.02	-3.20	90423.680	2.0	139764.480	2.0
202.6080	74.01	2.28	4678.136	0.0	54034.529	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
202.6085	25.02	-1.34	86520.940	2.5	135861.320	1.5
202.6088	30.02	-2.52	233610.400	2.0	282950.700	2.0
202.6131	26.00	-1.29	704.003	2.0	50043.250	1.0
202.6167	26.02	-1.37	137544.600	2.0	186882.980	3.0
202.6182	25.02	-1.14	86520.940	2.5	135858.960	2.5
202.6211	24.01	-3.74	31083.110	1.5	80420.430	2.5
202.6334	26.01	-5.46	23317.600	2.5	72651.910	3.5
202.6339	25.01	-1.99	32858.840	2.0	82193.040	2.0
202.6404	24.02	-4.79	63038.600	1.0	112371.200	2.0
202.6448	25.00	-4.72	17451.520	2.5	66783.050	3.5
202.6453	26.02	-3.55	140453.100	3.0	189784.520	2.0
202.6455	26.02	-3.00	139680.470	3.0	189011.840	4.0
202.6467	25.01	-2.59	44899.820	3.0	94230.900	2.0
202.6495	26.02	-4.63	139625.170	4.0	188955.560	3.0
202.6524	28.02	-1.76	82826.900	4.0	132156.600	4.0
202.6569	12.03	-3.25	555338.000	.5	604666.600	1.5
202.6591	20.02	-1.19	282075.150	0.0	331403.200	1.0
202.6606	18.01	-2.05	145668.800	1.5	194996.490	1.5
202.6612	28.00	-4.40	0.000	4.0	49327.560	3.0
202.6639	25.01	-3.94	33278.390	3.0	82605.290	4.0
202.6646	26.01	-3.73	13639.390	3.5	65696.110	4.5
202.6688	28.02	-2.81	132156.600	4.0	181482.300	4.0
202.6774	28.01	-4.43	72375.420	1.5	121699.020	1.5
202.6849	24.00	-5.61	7810.820	1.0	57132.590	1.0
202.6866	26.02	-2.42	149285.000	3.0	198606.370	2.0
202.6918	26.01	-3.52	22810.330	3.5	72130.440	4.5
202.6938	25.02	-4.45	62456.990	.5	111776.600	1.5
202.7010	25.01	-3.29	39808.140	3.0	89126.000	3.0
202.7053	26.01	-4.49	37227.320	.5	86544.140	1.5
202.7062	27.01	-4.47	1597.200	2.0	50913.800	2.0
202.7106	25.02	-7.70	62568.080	1.5	111883.600	2.5
202.7115	29.01	-4.40	67916.390	1.0	117231.690	1.0
202.7116	20.02	-4.04	324110.240	4.0	373425.510	4.0
202.7117	26.02	-4.16	77075.300	1.0	126390.570	1.0
202.7159	29.01	-1.76	73101.870	1.0	122416.100	0.0
202.7173	23.03	-9.24	215957.700	3.0	265271.600	3.0
202.7183	8.01	-1.55	208484.240	2.5	257797.900	1.5
202.7226	25.01	-2.34	39813.380	2.0	89126.000	3.0
202.7242	25.01	-2.59	32787.600	4.0	82099.820	4.0
202.7291	26.00	-5.16	415.932	3.0	49726.964	4.0
202.7298	24.00	-6.94	0.000	3.0	49310.860	3.0
202.7317	24.02	-4.52	109721.400	3.0	159031.800	2.0
202.7319	25.02	-1.36	89052.440	3.5	138362.800	3.5
202.7321	25.02	-1.11	62747.500	2.5	112057.800	3.5
202.7389	29.01	-1.85	88605.160	1.0	137913.800	1.0
202.7421	26.02	-3.37	87901.870	3.0	137209.730	4.0
202.7424	28.02	-2.19	62606.300	3.0	111914.100	2.0
202.7448	9.02	.46	395268.130	1.5	444575.350	2.5
202.7498	28.02	-1.92	82194.300	5.0	131500.300	5.0
202.7514	27.00	-2.92	1406.840	2.5	50712.450	2.5
202.7628	24.01	-1.82	31117.590	2.5	80420.430	2.5
202.7631	25.01	-1.74	35004.430	3.0	84307.200	4.0
202.7662	26.01	-5.46	23317.600	2.5	72619.610	2.5
202.7668	20.02	-1.31	278621.010	1.0	327922.870	2.0
202.7672	18.01	-1.85	159393.310	1.5	208695.070	1.5
202.7686	8.01	-1.53	208392.270	1.5	257693.700	.5
202.7695	23.01	-4.12	20343.000	2.0	69644.200	3.0
202.7713	24.01	-1.10	36272.660	4.5	85573.420	3.5
202.7750	29.01	-1.51	68447.570	3.0	117747.450	3.0
202.7774	26.01	-1.29	22939.350	2.5	72238.630	2.5
202.7788	28.01	-1.52	66571.340	2.5	115870.280	2.5
202.7799	26.00	-1.05	888.132	1.0	50186.814	2.0
202.7803	25.02	.54	89307.220	5.5	138605.800	6.5
202.7866	22.01	-3.492	10024.740	2.5	59321.790	2.5
202.7872	25.02	.37	72183.330	3.5	121480.240	3.5
202.7991	24.02	-3.98	63172.200	2.0	112466.200	3.0
202.8015	25.01	-2.93	31760.930	2.0	81054.350	2.0
202.8024	24.00	-6.03	7927.470	2.0	57220.670	2.0
202.8066	28.02	-1.91	62606.300	3.0	111898.500	4.0
202.8085	23.02	-3.47	109854.870	3.5	159146.600	2.5
202.8093	25.02	.20	86578.240	3.5	135869.760	3.5
202.8119	24.02	-2.19	65890.900	3.0	115181.800	2.0
202.8133	28.01	-1.65	66579.710	1.5	115870.280	2.5
202.8156	25.02	.41	86654.070	4.5	135944.080	4.5
202.8163	24.00	-9.99	7810.820	1.0	57100.660	2.0
202.8180	72.01	1.96	13389.148	0.0	62694.436	0.0
202.8193	23.01	-2.94	20622.990	3.0	69912.100	4.0
202.8195	26.01	-3.24	13673.210	1.5	62962.260	1.5
202.8221	25.01	-2.00	39808.140	3.0	89096.560	4.0
202.8230	76.00	1.70	4113.534	0.0	53417.607	0.0
202.8231	25.02	-1.10	89052.440	3.5	138340.620	2.5
202.8233	26.02	-2.32	77102.430	2.0	126390.570	1.0
202.8277	29.01	-2.56	88362.030	2.0	137649.100	2.0
202.8287	29.01	-2.96	85388.770	2.0	136475.600	2.0
202.8292	29.01	-4.35	69704.800	4.0	118991.500	4.0
202.8329	24.00	-1.30	7810.820	1.0	57096.620	1.0
202.8366	24.01	-1.14	25033.950	3.5	74318.860	2.5
202.8420	23.02	-2.51	107060.410	.5	156344.000	1.5
202.8470	25.01	-3.72	44899.820	3.0	94182.200	3.0
202.8502	18.01	-2.98	158730.210	2.5	208011.810	1.5
202.8513	28.01	-9.55	67031.020	.5	116312.340	1.5
202.8531	26.02	-2.84	90483.590	3.0	139764.480	2.0
202.8538	25.02	-4.63	86578.240	3.5	135858.960	2.5
202.8567	18.01	-1.84	159393.310	1.5	208673.320	2.5
202.8572	11.02	.01	410987.900	3.5	460267.800	3.5
202.8576	24.00	-1.86	8307.570	4.0	57587.360	4.0
202.8588	27.02	-7.71	55729.200	3.5	105000.700	3.5
202.8666	30.02	-2.38	235623.900	3.0	284901.500	2.0
202.8683	17.01	-2.30	110297.000	3.0	159574.200	2.0
202.8696	24.00	-3.27	7810.820	1.0	57087.700	2.0
202.8742	24.01	-2.39	25043.100	1.5	74318.860	2.5
202.8761	25.01	-1.77	38720.200	6.0	87995.500	5.0
202.8786	17.01	-2.86	110299.500	2.0	159574.200	2.0
202.8804	28.01	-2.89	70635.460	2.5	119909.720	1.5
202.8810	23.01	-5.88	2808.760	3.0	52082.880	4.0
202.8856	10.01	-4.81	279422.890	.5	328695.880	1.5
202.8904	24.01	-1.49	25047.040	2.5	74318.860	2.5
202.8944	25.02	-3.58	90936.220	1.5	140207.090	2.5
202.8945	26.02	-4.94	86847.110	2.0	136117.940	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
202.8948	25.01	-4.76	39808.140	3.0	89078.900	2.0	203.2302	28.01	-1.02	23796.180	1.5	72985.650	1.5
202.9012	27.02	-1.19	77622.900	4.5	126892.100	3.5	203.2323	25.02	-0.82	86520.940	2.5	135709.900	2.5
202.9097	28.01	-1.66	23108.280	2.5	72375.420	1.5	203.2406	26.01	-0.80	13639.390	3.5	65556.340	4.5
202.9110	28.01	-2.91	70778.120	3.5	120044.950	4.5	203.2426	15.00	-0.73	18722.650	0.5	67909.100	1.5
202.9164	25.01	-4.76	39813.380	2.0	89078.900	2.0	203.2468	16.01	-2.89	115817.000	2.0	165002.450	1.5
202.9185	26.01	-1.45	15844.710	4.5	65109.710	3.5	203.2473	23.01	-5.28	2968.220	4.0	52153.550	5.0
202.9204	28.01	-0.35	25036.380	2.5	74300.930	1.5	203.2500	26.02	-2.95	139827.170	4.0	169011.840	4.0
202.9268	28.00	-1.74	879.813	2.0	50142.800	3.0	203.2619	26.01	-1.92	23031.300	1.5	72213.100	0.5
202.9338	27.02	-3.94	73861.800	1.5	123123.100	1.5	203.2643	24.00	-3.15	8095.210	3.0	57276.420	3.0
202.9358	23.01	-4.72	14556.090	4.0	63816.900	3.0	203.2643	11.02	-4.15	414281.000	2.5	463462.200	1.5
202.9381	25.02	-2.07	89052.440	3.5	138312.700	4.5	203.2730	27.01	-0.93	13261.100	2.0	62440.200	1.0
202.9427	24.00	-0.76	7927.470	2.0	57186.600	3.0	203.2743	27.02	-2.87	85517.300	5.5	134696.100	5.5
202.9428	25.02	-0.29	71831.980	2.5	121091.080	1.5	203.2761	26.02	-3.46	139846.180	6.0	189024.530	5.0
202.9442	10.01	-3.23	252798.480	0.5	302057.260	0.5	203.2772	23.02	-3.22	107165.900	1.5	156344.000	1.5
202.9468	29.01	-4.11	71531.500	3.0	120789.630	4.0	203.2772	24.02	-4.64	108459.200	2.0	157637.300	3.0
202.9487	29.01	-2.18	72724.000	2.0	121981.680	2.0	203.2861	14.02	-4.64	204828.060	3.0	254004.600	2.0
202.9490	51.00	0.86	16292.819	0.0	65566.282	0.0	203.2900	27.02	-3.13	82363.300	4.5	131538.300	4.5
202.9503	23.01	-5.79	16533.000	5.0	65790.280	4.0	203.2920	12.02	-0.52	535179.600	2.0	584354.100	2.0
202.9516	26.02	-2.27	117950.320	4.0	167207.300	4.0	203.2936	18.01	-1.97	160239.350	1.5	209414.480	1.5
202.9524	26.02	-0.18	90423.680	2.0	139680.470	3.0	203.2975	24.00	-1.14	7927.470	2.0	57100.660	2.0
202.9565	28.01	-3.81	66571.340	2.5	115827.120	3.5	203.2990	41.01	2.03	3468.273	0.0	52656.906	0.0
202.9630	23.01	-6.02	339.210	4.0	49593.410	5.0	203.3013	25.00	-4.78	17282.000	3.5	66454.270	3.5
202.9826	24.00	-3.54	8307.570	4.0	57557.030	3.0	203.3024	24.03	-2.01	110700.000	3.5	159872.000	4.5
202.9848	24.01	-4.11	35356.060	1.5	84604.990	2.5	203.3028	27.00	-3.65	1406.840	2.5	50578.730	3.5
202.9856	25.02	-1.11	88880.080	2.5	138128.800	1.5	203.3056	25.02	-0.07	86520.940	2.5	135692.170	3.5
202.9881	26.01	-6.44	26352.800	4.5	75600.930	3.5	203.3057	26.02	-0.89	73727.640	2.0	122898.840	2.0
202.9920	26.02	-1.55	137544.600	2.0	186791.780	2.0	203.3059	25.01	-1.03	33248.320	4.0	82419.480	3.0
202.9932	29.01	-0.64	66418.520	2.0	115665.400	1.0	203.3079	24.01	-3.76	31117.590	2.5	80288.250	1.5
202.9966	26.02	-4.79	135705.570	3.0	184951.620	3.0	203.3094	27.02	-1.62	56794.800	1.5	105965.100	2.5
202.9980	74.01	2.63	6049.314	0.0	55310.883	0.0	203.3139	26.02	-3.43	137209.730	4.0	186378.940	4.0
203.0003	26.02	-2.17	137209.730	4.0	186454.890	5.0	203.3142	24.00	-2.14	7927.470	2.0	57096.620	1.0
203.0051	26.02	-4.49	132564.710	5.0	181808.700	5.0	203.3213	26.02	-2.90	137544.600	2.0	186712.020	1.0
203.0097	26.00	-2.66	0.000	4.0	49242.872	3.0	203.3251	26.02	-4.16	132659.170	4.0	181825.670	4.0
203.0097	25.01	-1.02	32856.950	3.0	82099.820	4.0	203.3255	9.02	-4.16	395385.660	2.5	444552.080	3.5
203.0163	23.02	-4.02	106441.310	4.5	155682.600	3.5	203.3264	27.02	-2.16	77383.100	3.5	126549.300	3.5
203.0190	25.00	-4.97	17282.000	3.5	66522.620	4.5	203.3268	12.02	-1.49	535179.600	2.0	584345.700	1.0
203.0205	24.00	-2.88	8095.210	3.0	57335.470	4.0	203.3288	23.01	-4.96	36.050	1.0	49201.660	2.0
203.0305	24.01	-2.73	25035.640	0.5	74273.480	1.5	203.3358	20.02	-0.18	277022.400	3.0	326186.320	3.0
203.0321	9.02	0.62	395385.660	2.5	444623.120	3.5	203.3389	28.01	-1.78	9330.040	3.5	58493.210	2.5
203.0418	13.01	-2.16	95546.800	3.0	144781.900	3.0	203.3438	16.01	-3.04	115285.310	3.5	164447.300	2.5
203.0422	28.02	-2.62	84604.800	1.0	133839.800	1.0	203.3451	26.01	-4.15	37227.320	0.5	86388.980	0.5
203.0439	18.01	-4.43	155351.030	1.5	204585.640	2.5	203.3453	26.02	-0.05	86847.110	2.0	136008.740	3.0
203.0459	25.01	-1.86	30679.240	5.0	79913.350	4.0	203.3473	15.00	0.00	18747.950	1.5	67909.100	1.5
203.0464	13.01	-1.25	95547.900	2.0	144781.900	3.0	203.3511	24.00	-5.15	7927.470	2.0	57087.700	2.0
203.0478	26.01	-3.40	44915.070	3.5	94148.710	4.5	203.3530	23.02	-1.77	56160.420	2.5	105320.180	1.5
203.0500	25.02	-0.01	100001.300	2.5	149234.400	2.5	203.3546	28.00	-3.01	879.813	2.0	50039.180	2.0
203.0592	27.00	-4.17	4142.660	3.5	53373.530	3.5	203.3559	26.02	-2.66	109570.840	2.0	158729.890	3.0
203.0596	28.01	-1.22	67031.020	0.5	116261.810	0.5	203.3570	77.00	1.27	0.000	0.0	49174.604	0.0
203.0600	26.02	-1.52	137561.100	1.0	186791.780	2.0	203.3587	26.01	-4.87	44915.070	3.5	94073.460	3.5
203.0613	24.01	-2.20	25043.100	1.5	74273.480	1.5	203.3598	25.02	0.28	89204.690	4.5	138362.800	3.5
203.0636	26.01	-1.98	22939.350	2.5	72169.150	1.5	203.3612	26.00	-4.86	888.132	1.0	50045.900	2.0
203.0643	14.02	-3.45	165765.000	2.0	214994.650	1.0	203.3612	20.02	-1.81	336749.110	1.0	385906.900	2.0
203.0660	23.01	-4.84	339.210	4.0	49568.450	3.0	203.3628	27.02	-1.20	78927.800	3.5	128085.200	2.5
203.0665	30.02	-0.72	233610.400	2.0	282839.500	3.0	203.3686	25.02	-1.23	90746.060	5.5	139902.060	5.5
203.0745	26.00	-2.04	0.000	4.0	49227.160	3.0	203.3688	26.01	-3.86	13673.210	1.5	62829.160	0.5
203.0766	23.02	-3.37	106903.350	5.5	156130.000	4.5	203.3710	25.03	-1.87	138123.100	6.0	187278.500	5.0
203.0773	28.02	-4.74	131792.400	4.0	181018.900	5.0	203.3722	26.00	-1.27	888.132	1.0	50043.250	1.0
203.0775	24.01	-5.27	25047.040	2.5	74273.480	1.5	203.3748	26.01	-2.15	22810.330	3.5	71964.810	2.5
203.0792	10.01	-3.72	254292.190	0.5	303518.210	1.5	203.3752	17.01	-3.43	128662.500	2.0	177816.900	2.0
203.0793	24.03	-3.72	184868.000	3.5	234094.000	4.5	203.3758	25.02	0.04	86578.240	3.5	135732.500	4.5
203.0795	26.02	-3.31	140453.100	3.0	189679.070	3.0	203.3808	29.01	-2.87	71531.500	3.0	120684.550	3.0
203.0845	28.01	-4.21	70778.120	3.5	120002.060	3.5	203.3834	29.01	-1.15	68730.720	4.0	117883.140	4.0
203.0912	25.02	-0.19	86486.770	1.5	135709.900	2.5	203.3896	26.02	-1.67	137561.100	1.0	186712.020	1.0
203.0918	23.02	-4.84	98383.530	2.5	147606.500	3.5	203.3910	25.01	-0.99	34761.810	5.0	83912.380	5.0
203.0929	23.02	-3.37	97110.430	3.5	140933.140	3.5	203.3954	10.01	-3.38	252798.480	0.5	301948.000	1.5
203.0958	27.02	-1.52	85474.100	6.5	134696.100	5.5	203.3967	25.02	-1.19	100085.200	1.5	149234.400	2.5
203.0975	24.02	-4.56	110154.000	4.5	159375.600	3.0	203.4028	26.02	-4.97	130756.840	6.0	179904.560	7.0
203.0988	9.02	-2.40	395268.130	1.5	444489.400	2.5	203.4074	26.00	-3.47	704.003	2.0	49850.610	3.0
203.1020	29.01	0.27	66418.520	2.0	115639.020	2.0	203.4188	26.01	-3.60	44929.590	2.5	94073.460	3.5
203.1045	20.02	-3.36	324660.470	1.0	373880.370	3.0	203.4195	28.01	-2.59	67694.640	2.5	116838.330	1.5
203.1086	11.02	-1.66	415173.200	1.5	464392.100	2.5	203.4239	26.02	-1.31	93392.450	3.0	142535.070	2.0
203.1111	27.02	-2.88	82363.300	4.5	131581.600	3.5	203.4242	26.00	-5.31	415.932	3.0	49558.500	4.0
203.1130	23.02	-4.05	92052.550	4.5	141270.400	3.5	203.4253	24.00	-0.57	8095.210	3.0	57237.500	4.0
203.1188	25.01	-1.45	30523.450	6.0	79739.880	5.0	203.4282	26.02	0.61	90483.590	3.0	139625.170	4.0
203.1206	26.00	-4.69	7376.762	4.0	56592.760	4.0	203.4284	28.01	-2.57	53601.190	1.5	102742.740	1.5
203.1219	25.02	-0.51	86654.070	4.5	135869.760	3.5	203.4303	25.01	-1.97	33278.390	3.0	82419.480	3.0
203.1225	26.01	-4.65	13474.430	2.5	62689.960	2.5	203.4373	17.02	0.01	205946.900	2.5	255086.300	3.5
203.1242	25.01	-3.19	52373.180	3.0	101588.300	3.0							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
203.4950	24.00	-4.87	8095.210	3.0	57220.670	2.0
203.4993	26.02	-2.51	83138.230	5.0	132262.660	6.0
203.5050	25.01	-3.08	44745.460	2.0	93868.500	1.0
203.5061	28.00	-6.61	204.786	3.0	49327.560	3.0
203.5084	23.02	-7.75	56160.420	2.5	105282.650	2.5
203.5088	26.02	-4.41	93412.930	2.0	142535.070	2.0
203.5123	25.01	-1.50	30679.240	5.0	79800.520	4.0
203.5127	28.01	-2.79	77736.790	4.5	126857.970	5.5
203.5157	26.02	-1.44	69747.400	0.0	118867.870	1.0
203.5168	27.02	-1.73	86283.800	4.5	135404.000	4.5
203.5247	27.02	-2.23	77121.100	4.5	126239.400	4.5
203.5276	25.01	-4.66	30795.750	4.0	79913.350	4.0
203.5351	27.00	-2.70	1809.330	1.5	50925.110	1.5
203.5367	26.02	-1.38	73727.640	2.0	122843.030	1.0
203.5381	28.01	-1.37	24788.200	1.5	73903.250	1.5
203.5388	10.01	-4.76	254165.010	1.5	303279.910	2.5
203.5396	24.02	-4.25	108793.300	3.0	157908.000	4.0
203.5398	23.01	-6.36	2968.220	4.0	52082.880	4.0
203.5428	25.02	-1.99	86578.240	3.5	135692.170	3.5
203.5439	25.01	-2.81	34761.810	5.0	83875.460	4.0
203.5503	25.02	-6.60	85173.880	1.5	134286.000	1.5
203.5517	25.02	-2.15	90746.060	5.5	139857.840	4.5
203.5585	16.01	-3.08	115892.300	1.5	165002.450	1.5
203.5604	23.03	-1.86	215957.700	3.0	265067.400	2.0
203.5606	18.01	-2.02	158167.710	1.5	207277.350	1.5
203.5626	25.01	-3.09	33278.390	3.0	82387.530	3.0
203.5637	26.00	-2.65	0.000	4.0	49108.870	4.0
203.5658	24.01	-2.78	35569.020	2.5	84677.390	3.5
203.5673	25.02	-1.87	89204.690	4.5	138312.700	4.5
203.5794	11.02	-0.00	444748.100	1.5	493853.200	1.5
203.5833	23.01	-4.81	106.630	2.0	49210.780	3.0
203.5840	29.01	1.22	23874.626	0.0	72994.400	0.0
203.5845	26.01	-1.96	22939.350	2.5	72043.210	1.5
203.5851	9.02	-3.16	395385.660	2.5	444489.400	2.5
203.5852	10.01	-3.50	252953.540	1.5	302057.260	1.5
203.5854	29.01	-0.09	23998.220	1.0	73101.870	1.0
203.5926	26.02	-1.10	73727.640	2.0	122829.550	3.0
203.5927	30.02	-1.18	234866.900	1.0	283968.800	0.0
203.5968	26.00	-5.36	704.003	2.0	49804.900	3.0
203.6012	26.02	-1.36	88663.870	4.0	137763.700	5.0
203.6022	27.02	-1.83	79425.300	2.5	128524.900	2.5
203.6058	25.01	-2.67	32787.600	4.0	81886.330	5.0
203.6140	26.02	-2.48	134360.400	4.0	183457.150	4.0
203.6212	23.01	-5.94	106.630	2.0	49201.660	2.0
203.6229	28.01	-3.27	72985.650	1.5	122080.250	2.5
203.6266	26.02	-4.85	137209.730	4.0	186303.440	3.0
203.6267	25.01	-3.49	38901.800	4.0	87995.500	5.0
203.6349	17.01	-3.72	128662.500	2.0	177754.200	1.0
203.6353	23.02	-2.66	92052.550	4.5	141144.170	4.5
203.6363	24.00	-1.12	8095.210	3.0	57186.600	3.0
203.6372	26.02	-1.52	140693.360	3.0	189784.520	2.0
203.6383	24.02	-4.26	109237.400	1.0	158328.300	2.0
203.6424	23.01	-4.91	3162.800	5.0	52252.700	6.0
203.6424	27.02	-1.85	78927.800	3.5	128017.700	3.5
203.6433	27.02	-2.00	77411.600	5.5	126501.300	5.5
203.6434	26.01	-6.66	20516.980	2.5	69606.640	3.5
203.6440	27.00	-4.24	5075.830	1.5	54165.350	1.5
203.6458	24.02	-2.23	71676.200	4.0	120765.300	5.0
203.6488	18.01	-2.69	159393.310	1.5	208481.660	1.5
203.6603	27.01	-1.06	950.300	3.0	50035.900	3.0
203.6636	25.01	-2.48	33147.390	5.0	82232.180	5.0
203.6645	9.02	-3.14	395385.660	2.5	444470.240	1.5
203.6670	25.02	-3.35	72183.330	3.5	121267.320	2.5
203.6813	24.01	-4.49	25033.950	3.5	74114.480	3.5
203.6848	26.02	-1.02	69788.190	1.0	118867.870	1.0
203.6900	25.02	-3.87	86654.070	4.5	135732.500	4.5
203.6901	29.01	-3.30	68850.060	0.0	117928.480	1.0
203.6926	11.02	-1.10	416910.200	1.5	465988.000	1.5
203.6957	18.01	-3.86	161048.640	1.5	210125.700	2.5
203.6960	27.02	-1.86	77472.300	2.5	126549.300	3.5
203.6964	27.02	-1.66	86327.100	3.5	135404.000	4.5
203.6984	24.01	-1.31	32355.940	3.5	81432.360	3.5
203.7033	25.01	-2.11	32787.600	4.0	81862.640	4.0
203.7120	29.01	1.33	22745.421	0.0	71834.331	0.0
203.7127	29.01	-2.24	22846.970	2.0	71919.930	3.0
203.7130	10.01	-2.15	254165.010	1.5	303237.910	1.5
203.7156	26.02	-7.77	73849.100	1.0	122921.370	1.0
203.7159	27.02	-3.36	91715.100	2.5	140787.300	2.5
203.7179	17.01	-3.66	128621.900	1.0	177693.600	0.0
203.7184	24.02	-7.76	71676.200	4.0	120747.800	4.0
203.7208	9.01	-3.12	240152.710	1.0	289223.730	1.0
203.7214	26.02	-2.31	134360.400	4.0	183431.280	5.0
203.7259	24.01	-1.40	35607.600	3.5	84677.390	3.5
203.7280	24.01	-1.30	31351.150	2.5	80420.430	2.5
203.7291	26.02	-2.7	88694.670	5.0	137763.700	5.0
203.7297	25.02	-2.29	62988.920	3.5	112057.800	3.5
203.7305	25.01	-0.00	30523.450	6.0	79592.140	6.0
203.7357	24.01	-3.43	25047.040	2.5	74114.480	3.5
203.7362	28.01	-2.22	24835.930	1.5	73903.250	1.5
203.7379	24.01	-1.16	35610.500	4.5	84677.390	3.5
203.7446	25.02	-1.47	86051.500	2.5	135116.800	1.5
203.7451	26.00	-1.59	978.076	0.0	50043.250	1.0
203.7467	23.02	-3.14	98062.220	1.5	147127.000	2.5
203.7504	27.02	-3.65	77411.600	5.5	126475.500	6.5
203.7523	23.02	-0.90	56256.750	1.5	105320.180	1.5
203.7532	26.00	-3.68	888.132	1.0	49951.360	0.0
203.7541	17.01	-3.02	112608.000	1.0	161671.000	0.0
203.7576	26.02	-8.83	82382.870	3.0	131445.030	2.0
203.7607	28.01	-1.03	51557.850	3.5	100619.260	4.5
203.7639	25.01	-1.16	30679.240	5.0	79739.880	5.0
203.7677	23.01	-4.59	208.890	3.0	49268.610	4.0
203.7694	18.01	-3.15	159706.460	1.5	208765.770	1.5
203.7711	22.02	-1.47	83795.700	1.0	132854.600	1.0
203.7740	24.00	-2.80	7927.470	2.0	56985.670	3.0
203.7773	11.02	-7.75	411548.200	2.5	460605.600	1.5
203.7774	26.01	-2.46	13904.870	1.5	62962.260	1.5
203.7841	23.02	-8.82	49327.740	2.5	98383.530	2.5
203.7863	26.00	-6.36	7728.058	3.0	56783.306	3.0
203.7909	28.01	-2.89	68709.760	1.5	117763.910	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
203.7943	27.00	-3.74	4142.660	3.5	53195.980	2.5
203.7969	25.00	-4.62	17451.520	2.5	66504.210	1.5
203.8092	26.02	-1.19	73849.100	1.0	122898.840	2.0
203.8093	6.01	-1.84	184690.980	1.5	233740.700	2.5
203.8209	26.02	-2.51	150654.900	3.0	199701.820	3.0
203.8214	17.01	-2.55	112608.000	1.0	161654.800	1.0
203.8226	26.00	-5.47	7376.762	4.0	56423.276	4.0
203.8252	24.02	-4.36	63420.300	3.0	112466.200	3.0
203.8268	24.01	-3.53	19798.010	2.5	68843.510	3.5
203.8287	26.02	-1.64	140750.980	2.0	189796.030	1.0
203.8289	10.04	-2.88	641646.000	3.0	690691.000	2.0
203.8303	26.02	-4.20	132785.360	4.0	181830.020	3.0
203.8309	9.01	-2.57	240179.220	0.0	269223.730	1.0
203.8328	25.01	-1.84	29869.110	2.0	78913.170	2.0
203.8333	29.01	-1.90	88605.160	1.0	137649.100	2.0
203.8439	30.02	-1.51	233610.400	2.0	282651.800	1.0
203.8440	42.01	1.79	0.000	0.0	49057.122	0.0
203.8480	25.02	-4.5	89204.690	4.5	138245.090	5.5
203.8481	23.02	-2.04	91710.430	3.5	140750.820	2.5
203.8484	26.02	-4.02	132785.360	4.0	181825.670	4.0
203.8527	25.01	-1.50	38901.800	4.0	87941.080	4.0
203.8576	25.02	-1.63	86654.070	4.5	135692.170	3.5
203.8576	29.02	-1.21	89045.900	3.5	138084.000	2.5
203.8585	28.01	-1.32	67694.640	2.5	116732.510	2.5
203.8664	24.01	-1.68	35569.020	2.5	84604.990	2.5
203.8680	27.01	-1.08	13404.600	1.0	62440.200	1.0
203.8699	28.01	-3.48	51557.850	3.5	100592.980	3.5
203.8723	26.01	-6.46	23317.600	2.5	72352.170	3.5
203.8735	23.01	-3.80	19112.930	4.0	68147.200	4.0
203.8743	26.02	-4.1	82410.940	2.0	131445.030	2.0
203.8765	26.02	-4.32	140750.980	2.0	189784.520	2.0
203.8834	28.02	-1.76	61339.200	4.0	110371.100	4.0
203.8868	27.00	-2.68	816.000	3.5	49847.080	2.5
203.8908	26.02	-9.6	69837.760	2.0	118867.870	1.0
203.8938	24.01	-5.30	21822.860	2.5	70852.240	3.5
203.8938	24.02	-3.53	109434.200	2.0	158463.600	3.0
203.8942	24.02	-7.0	71736.000	5.0	120765.300	5.0
203.8950	25.02	-3.8	62747.500	2.5	111776.600	1.5
203.8956	18.01	-2.69	160239.350	1.5	209268.310	1.5
203.8987	11.02	-8.1	444825.000	2.5	493853.200	1.5
203.9000	24.00	-2.18	8307.570	4.0	57335.470	4.0
203.9013	24.00	-6.22	0.000	3.0	49027.580	2.0
203.9031	23.01	-4.48	20617.050	3.0	69644.200	3.0
203.9042	17.01	-2.31	112608.000	1.0	161634.900	2.0
203.9083	23.02	-1.78	56256.750	1.5	105282.650	2.5
203.9101	26.01	-3.08	22939.350	2.5	71964.610	2.5
203.9162	15.04	-1.54	427157.000	5	476181.000	1.5
203.9162	15.04	-1.84	427157.000	5	476181.000	5
203.9165	25.02	-1.07	86486.770	1.5	135516.700	2.5
203.9168	25.01	-7.64	29889.316	3.0	78913.170	2.0
203.9171	27.02	-6.49	78344.300	5	127458.160	1.5
203.9183	24.02	-3.5	71676.200	4.0	120699.700	3.0
203.9190	26.02	-4.56	132785.360	4.0	181808.700	5.0
203.9190	25.01	-1.70	34910.430	4.0	83933.770	3.0
203.9278	23.01	-3.46	20622.990	3.0	69644.200	3.0
203.9285	9.02	-2.70	442147.190	2.5	491168.250	2.5
203.9296	28.01	-3.94	70635.460	2.5	119656.250	3.5
203.9325	24.00	-4.40	8307.570	4.0	57327.660	5.0
203.9333	23.02	-7.1	49805.290	3.5	98825.190	3.5
203.9403	30.02	-5.4	233610.400	2.0	282628.600	2.0
203.9446	26.00	-3.91	415.932	3.0	49433.108	2.0
203.9464	26.01	-2.29	13673.210	1.5	62689.960	2.5
203.9465	29.01	-2.60	68730.720	4.0	117747.450	3.0
203.9488	18.01	-2.06	158730.210	2.5	207746.380	2.5
203.9495	18.01	-1.51	154181.430	4.5	203197.440	3.5
203.9510	26.02	-5.2	92523.910	5.0	141539.550	6.0
203.9549	12.02	-3.4	425640.300	2.0	474655.000	2.0
203.9586	28.01	-2.56	67880.160	2.5	116893.980	2.5
203.9607	27.01	-4.55	19189.900	4.0	68203.200	5.0
203.9665	26.01	-2.47	23031.300	1.5	72043.210	1.5
203.9670	24.02	-6.42	71736.000	5.0	120747.800	4.0
203.9770	51.00	.99	9759.560	0.0	58784.695	0.0
203.9815	23.01	-6.03	26839.820	3.0	75848.130	3.0
203.9832	11.02	-3.65	366165.300	2.5	415173.200	1.5
203.9836	27.02	-6.68	82363.300	4.5	131371.100	5.5
203.9850	34.00	1.75	1935.780	0.0	50958.992	0.0
203.9905	24.01	-1.79	0.000	2.5	49006.150	1.5
203.9915	26.00	-4.60	7376.762	4.0	56362.664	5.0
203.9916	25.01	-2.59	32856.950	3.0	81862.840	4.0
203.9933	25.02	.39	89307.220	5.0	138312.700	4.5
203.9934	24.00	-2.14	8095.210	3.0	57100.660	2.0
203.9962	25.01	-2.24	30795.750	4.0	79800.520	4.0
204.0013	25.01	-3.80	36364.300	1.0	85367.850	2.0
204.0065	6.01	-2.01	184690.980	1.5	233693.300	1.5
204.0080	25.01	-3.92	34910.430	4.0	83912.380	5.0
204.0082	23.01	-5.09	208.890	3.0	49210.780	3.0
204.0085	28.01	-1.32	52738.450	2.5	101740.270	3.5
204.0214	24.00	-5.49	7593.160	2.0	56591.880	2.0
204.0253	27.02	-1.00	79425.300	2.5	128423.100	1.5
204.0270	24.01	-3.55	35607.600	3.5	84604.990	2.5
204.0332	22.02	.23	81023.600	2.0	130019.500	3.0
204.0366	25.01	-3.33	33147.390	5.0	82142.460	6.0
204.0386	26.02	-4.70	136008.740	3.0	185003.350	2.0
204.0392	10.01	-2.82	252953.540	1.5	301948.000	1.5
204.0413	25.01	-5.86	29919.220	2.0	78913.170	2.0
204.0414	26.02	-6.67	73849.100	1.0	122843.030	1.0
204.0430	24.01	-2.28	20512.620	2.5	69506.160	3.5
204.0433	18.01	-3.04	154203.970	3.5	203197.440	3.5
204.0462	23.01	-5.48	208.890	3.0	49201.660	2.0
204.0474	24.00	-3.38	8095.210	3.0	57087.700	2.0
204.0508	24.00	-4.30	7810.820	1.0	56602.500	0.0
204.0522	26.02	-4.72	130756.840	6.0	179746.170	5.0
204.0546	23.01	-5.99	3162.800	5.0	52153.550	5.0
204.0556	26.02	-3.29	66955.730	4.0	116868.250	4.0
204.0588	25.02	-5.4	86051.500	2.5	135041.250	1.5
204.0588	25.02	-5.6	86520.940	2.5	135510.700	2.5
204.0636	18.01	-1.87	159706.460	5	208695.070	1.5
204.0660	50.00	1.06	3387.616	0.0	52391.370	0.0
204.0668	24.01	-1.19	20518.330	3.5	69506.160	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
204.0673	29.01	-1.58	88926.090	0.0	137913.800	1.0	204.3721	25.01	-2.39	33278.390	3.0	82193.040	2.0
204.0690	26.01	-0.45	15844.710	4.5	64832.000	4.5	204.3753	25.01	-2.90	32818.100	0.0	81732.000	1.0
204.0731	24.01	-0.98	20519.850	4.5	69506.160	3.5	204.3760	32.00	1.33	1371.178	0.0	50300.602	0.0
204.0756	26.02	-3.42	140693.360	3.0	189679.070	3.0	204.3782	26.01	-1.23	18360.650	1.5	67273.860	1.5
204.0764	24.01	-0.85	20512.750	5.0	69498.270	4.5	204.3790	29.01	1.59	21777.530	0.0	70706.236	0.0
204.0769	26.02	-0.66	73935.960	0.0	122921.370	1.0	204.3795	25.01	-1.54	30679.240	5.0	79592.140	6.0
204.0778	9.02	-2.18	442147.190	2.5	491132.380	3.5	204.3803	29.01	-0.10	21928.600	3.0	70841.300	3.0
204.0888	23.02	-2.75	105282.650	2.5	154265.200	3.5	204.3841	24.00	-4.56	7810.820	1.0	56722.600	1.0
204.0979	28.00	-1.69	204.786	3.0	49185.146	2.0	204.3937	27.02	-2.40	77472.300	2.5	126381.800	1.5
204.0997	24.01	-2.25	20518.330	3.5	69498.270	4.5	204.3941	24.02	-2.64	109533.500	4.0	158442.900	4.0
204.0998	6.01	-2.31	184690.980	1.5	233670.900	5.0	204.3983	25.01	-4.56	43131.400	2.0	92039.800	2.0
204.1038	26.00	-3.29	6928.266	5.0	55907.220	5.0	204.3988	28.00	-1.55	2216.519	2.0	51124.800	3.0
204.1060	24.01	-1.19	20519.850	4.5	69498.270	4.5	204.3993	26.02	-3.02	134549.000	3.0	183457.150	4.0
204.1069	24.02	-3.94	63420.300	3.0	112398.500	4.0	204.4012	26.02	-2.36	134549.000	3.0	183456.690	3.0
204.1107	26.00	-4.24	6928.266	5.0	55905.560	4.0	204.4038	26.02	-0.99	73935.960	0.0	122843.030	1.0
204.1140	25.01	-2.62	32836.400	1.0	81812.900	2.0	204.4048	10.01	-2.75	254165.010	1.5	303071.840	-2.5
204.1144	28.00	-2.28	1713.080	1.0	50689.490	2.0	204.4203	27.00	-3.69	1809.330	1.5	50712.450	2.5
204.1145	11.02	-2.82	414281.000	2.5	463257.400	2.5	204.4221	27.02	-2.39	76518.900	5.5	125421.600	4.5
204.1165	24.02	-5.00	108459.200	2.0	157435.100	2.0	204.4243	10.01	-2.63	252953.540	1.5	301855.710	2.5
204.1236	23.03	-2.32	216905.000	1.0	265879.200	1.0	204.4287	23.01	1.15	23391.090	5.0	72292.200	4.0
204.1236	23.03	-2.85	216905.000	1.0	265879.200	1.0	204.4305	26.02	-0.55	73727.640	2.0	122626.340	2.0
204.1301	26.02	-2.42	70725.010	3.0	119697.640	2.0	204.4335	26.02	-1.66	93412.930	2.0	142312.900	3.0
204.1335	24.00	-6.01	7750.780	0.0	56722.600	1.0	204.4463	9.03	-1.96	451819.600	5.0	500716.500	0.0
204.1364	29.01	-2.37	85388.770	2.0	134359.900	1.0	204.4468	24.02	1.52	71868.500	6.0	120765.300	5.0
204.1421	25.01	-2.90	33147.390	5.0	82117.160	5.0	204.4497	25.03	-1.86	120603.100	4.0	169499.200	5.0
204.1459	24.00	-3.78	8307.570	4.0	57276.420	3.0	204.4518	25.01	-2.54	32838.400	1.0	81732.000	1.0
204.1479	24.01	-5.67	20024.180	3.5	68992.550	4.5	204.4523	26.02	-4.39	138103.120	4.0	186998.600	4.0
204.1491	22.01	-1.11	4628.610	2.5	53596.700	1.5	204.4526	28.02	-3.72	84604.800	1.0	133500.200	2.0
204.1498	25.02	-1.86	84981.630	3.5	133949.540	4.5	204.4535	26.02	-0.90	87901.870	3.0	136797.050	3.0
204.1540	20.02	-1.53	228413.950	3.0	277380.860	2.0	204.4556	25.02	0.04	62988.920	3.5	111863.600	2.5
204.1561	27.02	-1.77	82920.700	3.5	131887.100	4.5	204.4561	26.02	-2.12	98661.880	1.0	147556.450	1.0
204.1563	20.02	-4.44	324660.470	3.0	373626.850	2.0	204.4589	24.02	-3.61	109569.700	2.0	158463.600	3.0
204.1599	28.02	-4.56	82826.900	4.0	131792.400	4.0	204.4670	26.02	-1.20	87901.870	3.0	136793.820	2.0
204.1601	24.01	-2.70	20512.620	2.5	69478.060	2.5	204.4733	24.00	-4.51	8095.210	3.0	56985.670	3.0
204.1614	23.02	-4.99	110181.470	2.5	159146.600	2.5	204.4761	7.01	-1.58	174212.030	2.0	223101.620	1.0
204.1618	25.01	-1.80	34910.430	4.0	83875.460	4.0	204.4781	9.02	-1.95	442278.930	2.5	491168.250	2.5
204.1652	18.01	-1.87	158730.210	2.5	207694.420	3.5	204.4794	28.02	-4.46	71383.700	2.0	120272.700	1.0
204.1690	32.00	1.41	0.000	0.0	48979.032	0.0	204.4802	24.01	-2.39	31531.620	1.5	80420.430	2.5
204.1695	27.02	-1.81	82920.700	3.5	131883.900	2.5	204.4861	18.03	-2.95	257348.890	1.5	306236.280	2.5
204.1741	18.01	-3.49	143371.350	1.5	192333.430	5.0	204.4870	28.01	-2.21	70778.120	3.5	119665.290	2.5
204.1743	25.01	-5.62	29951.120	1.0	78913.170	2.0	204.4971	26.02	-0.55	69836.830	3.0	118721.600	2.0
204.1745	24.01	-5.01	19798.010	2.5	68760.000	3.5	204.4988	26.01	-3.62	21430.390	5.5	70314.740	4.5
204.1781	27.00	-3.02	4142.660	3.5	53103.780	3.5	204.5010	26.02	-1.21	69837.760	2.0	118721.600	2.0
204.1786	26.02	-4.16	135990.620	4.0	184951.620	3.0	204.5041	25.02	0.38	89052.440	3.5	137935.530	4.5
204.1839	24.01	-2.57	20518.330	3.5	69478.060	2.5	204.5146	23.02	-2.36	92052.550	4.5	140933.140	3.5
204.1844	9.03	-0.22	25234.400	2.0	74194.000	2.0	204.5152	26.02	-2.68	137423.000	3.0	186303.440	3.0
204.1854	18.03	-1.99	257348.890	1.5	306308.250	1.5	204.5211	24.00	-2.44	8307.570	4.0	57186.600	3.0
204.1858	18.01	-2.17	160239.350	1.5	209198.630	2.5	204.5237	27.02	-2.47	77622.900	4.5	126501.300	5.5
204.1932	14.00	-3.76	15394.370	0.0	64351.860	1.0	204.5246	25.03	-1.88	119961.500	3.0	168839.700	4.0
204.1997	26.02	-1.90	137423.000	3.0	186378.940	4.0	204.5249	28.01	-2.29	70778.120	3.5	119656.250	3.5
204.1997	25.01	-3.57	32856.950	3.0	81812.900	2.0	204.5297	24.01	-1.48	32355.940	3.5	81232.910	2.5
204.2007	16.01	-3.41	115817.000	2.5	164772.700	3.5	204.5312	25.01	-2.98	32836.400	1.0	81713.020	0.0
204.2076	25.01	-2.61	32858.840	2.0	81812.900	2.0	204.5352	24.01	-0.80	20512.750	5.5	69388.400	6.5
204.2130	26.02	-2.05	98661.880	1.0	147614.650	2.0	204.5424	9.02	-4.44	442294.310	1.5	491168.250	2.5
204.2144	25.01	-1.38	33147.390	5.0	82099.820	4.0	204.5455	28.02	-1.53	61339.200	4.0	110212.400	5.0
204.2147	28.01	-1.60	68709.760	5.0	117662.110	1.5	204.5457	25.01	-3.00	32858.840	2.0	81732.000	1.0
204.2155	24.01	-3.89	19631.280	1.5	68583.440	2.5	204.5469	26.00	-4.97	7985.783	2.0	56858.650	2.0
204.2179	25.01	-3.03	43131.400	2.0	92083.000	3.0	204.5472	11.02	-0.34	411548.200	2.5	460421.000	2.5
204.2199	8.02	-1.31	365723.900	1.0	414675.000	2.0	204.5486	25.02	-3.48	85077.090	4.5	133949.540	4.5
204.2204	24.03	-1.90	109950.000	2.5	158901.000	2.5	204.5509	25.01	-3.77	32787.600	4.0	81659.500	3.0
204.2208	24.02	-4.94	63420.300	3.0	112371.200	2.0	204.5523	23.01	-5.35	339.210	4.0	49210.780	3.0
204.2239	26.02	-4.41	82494.880	1.0	131445.030	2.0	204.5546	25.01	-4.48	35004.430	3.0	83875.460	4.0
204.2334	25.02	-3.26	94397.200	3.5	143345.070	3.5	204.5610	26.02	-4.75	131035.070	7.0	179904.560	6.0
204.2361	18.01	-1.63	154203.970	3.5	203151.200	2.5	204.5637	25.01	-2.64	39248.320	4.0	82117.160	5.0
204.2424	10.01	-1.96	254292.190	5.0	303237.910	1.5	204.5711	26.02	-2.64	83237.860	3.0	132104.940	2.0
204.2474	23.03	0.01	215957.700	3.0	264902.200	3.0	204.5712	25.00	-4.95	17637.150	5.0	66504.210	1.5
204.2490	25.01	-1.48	30795.750	4.0	79739.880	5.0	204.5718	18.01	-3.58	143107.600	2.5	191974.530	1.5
204.2496	28.01	-2.31	67880.160	2.5	116824.150	2.5	204.5799	20.02	-0.13	279741.800	2.0	328606.780	2.0
204.2508	30.02	-1.13	236560.000	0.0	285503.700	1.0	204.5811	26.00	-4.30	7728.058	3.0	56592.760	4.0
204.2520	26.02	-4.47	136117.940	2.0	185061.350	1.0	204.5838	26.02	0.18	88663.870	4.0	137527.920	4.0
204.2530	28.01	-1.59	77736.790	4.5	126679.980	4.5	204.5911	28.02	-4.80	132156.600	4.0	181018.900	5.0
204.2575	26.01	-3.58	21581.640	4.5	70523.730	3.5	204.5932	29.02	-3.42	77967.600	2.5	126829.400	3.5
204.2730	24.00	-2.03	8095.210	3.0	57033.600	4.0	204.5944	26.02	-2.31	69695.730	4.0	118557.250	5.0
204.2748	26.02	-4.69	130256.270	5.0	179194.220	4.0	204.5980	42.01	1.74	0.000	0.0	48876.333	0.0
204.2752	25.02	-0.73	89307.220	5.5	138245.090	5.5	204.6072	26.02	-0.95	86847.110	2.0	135705.570	3.0
204.2784	24.01	-3.81	31351.150	2.5	80288.250	1.5	204.6142	23.01	-1.99	19902.600	0.0	68759.400	1.0
204.2834	22.02	-0.03	80938.020	1.0	129873.900	2.0	204.6149	25.00	-3.67	17052.290	4.5	65908.920	4.5
204.2839	18.01	-2.63	159393.310	1.5	208329.080</								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
204.7189	11.02	-0.07	414281.000	2.5	463112.800	3.5	205.0633	25.01	-1.91	43311.000	1.0	92060.800	1.0
204.7190	20.02	-0.57	282571.430	1.0	331403.200	1.0	205.0676	25.02	-1.12	85200.760	5.5	133949.540	4.5
204.7195	28.01	-2.07	51557.850	3.5	100389.520	2.5	205.0713	19.02	-4.28	192082.000	2.5	240829.900	3.5
204.7245	26.00	-1.91	11976.239	4.0	60806.720	3.0	205.0743	26.02	-0.38	69695.730	4.0	118442.920	3.0
204.7322	24.01	-2.79	32603.730	2.5	81432.360	3.5	205.0743	27.01	-4.26	950.300	3.0	49697.500	4.0
204.7357	28.00	-0.82	204.786	3.0	49032.589	2.0	205.0793	18.01	-0.53	147875.860	2.5	196621.880	3.5
204.7357	27.02	-0.59	77411.600	5.5	126239.400	4.5	205.0813	25.01	-2.03	33248.320	4.0	81993.850	4.0
204.7393	26.00	-2.48	415.932	3.0	49242.672	3.0	205.0831	28.00	-1.90	1713.080	1.0	50458.187	1.0
204.7401	26.00	-3.35	415.932	3.0	49242.680	2.0	205.0840	17.02	-2.55	205938.500	1.5	254683.400	2.5
204.7458	9.02	-3.42	442636.270	3.5	491461.650	4.5	205.0882	25.01	-2.40	43339.100	2.0	92083.000	3.0
204.7508	27.02	-2.96	83799.600	2.5	132623.800	3.5	205.0900	23.02	-1.32	98383.530	2.5	147127.000	2.5
204.7514	25.00	-4.97	17052.290	4.5	65876.340	3.5	205.0953	24.02	-3.91	109721.400	3.0	158463.600	3.0
204.7624	25.01	-2.94	33278.390	3.0	82099.820	4.0	205.0987	20.02	-3.76	324660.470	3.0	373401.870	3.0
204.7665	29.01	-0.26	73595.640	1.0	122416.100	0.0	205.0996	23.02	-2.59	107060.410	.5	155801.600	1.5
204.7683	26.01	-6.28	20830.520	2.5	69650.540	2.5	205.1029	17.01	-4.17	112608.000	1.0	161348.400	1.0
204.7684	13.01	-4.79	91271.200	1.0	140091.200	2.0	205.1032	26.01	-0.63	16369.390	3.5	65109.710	3.5
204.7711	26.01	-1.54	25787.600	1.5	74606.970	2.5	205.1090	25.01	-2.49	33147.390	5.0	81886.330	5.0
204.7712	24.01	-3.30	20024.180	3.5	68843.510	3.5	205.1155	28.01	-2.34	68156.570	1.5	116893.980	2.5
204.7726	27.02	-1.18	83773.400	1.5	132592.400	1.5	205.1193	17.02	-1.59	205946.900	2.5	254683.400	2.5
204.7751	27.02	-4.66	123123.100	1.5	171941.500	.5	205.1194	28.01	-4.57	72375.420	1.5	121111.900	.5
204.7751	27.02	-4.66	123123.100	1.5	171941.500	.5	205.1222	24.01	-7.23	20024.180	3.5	68760.000	3.5
204.7860	25.01	-2.07	38901.800	4.0	87717.620	3.0	205.1235	29.02	-2.25	148662.900	2.5	197398.400	2.5
204.7995	25.02	-2.62	94397.200	3.5	143209.600	2.5	205.1260	28.02	-3.04	84604.800	1.0	133339.700	1.0
204.7999	18.01	-1.27	147503.020	1.5	196315.510	2.5	205.1260	27.02	-3.28	82363.300	4.5	131098.200	4.5
204.8027	26.01	-4.69	21711.890	3.5	70523.730	3.5	205.1278	23.02	-2.50	49237.740	2.5	98062.220	1.5
204.8052	26.00	-2.55	415.932	3.0	49227.160	3.0	205.1298	23.01	-1.52	30306.400	3.0	79040.400	3.0
204.8076	26.02	-4.59	138187.930	3.0	186998.600	4.0	205.1336	26.01	-5.53	21581.640	4.5	70314.740	4.5
204.8077	28.00	-2.09	1332.153	3.0	50142.800	3.0	205.1380	6.01	-2.27	167035.710	2.5	215767.770	1.5
204.8236	14.01	-1.78	79338.760	1.5	128145.610	2.5	205.1431	25.02	-0.65	89204.690	4.5	137935.530	4.5
204.8255	25.03	-0.45	137853.000	4.0	186659.400	4.0	205.1455	22.01	-1.24	20891.880	3.5	69622.150	2.5
204.8280	76.00	1.35	2661.698	0.0	51483.148	0.0	205.1496	25.03	-1.86	137930.100	5.0	186659.400	4.0
204.8294	20.02	-0.59	277380.860	2.0	326186.320	3.0	205.1504	26.00	-4.56	704.003	2.0	49433.108	2.0
204.8388	26.02	-3.89	136200.130	3.0	185003.350	2.0	205.1517	25.01	-2.38	43311.000	1.0	92039.800	2.0
204.8393	27.02	-0.93	83789.300	.5	132592.400	1.5	205.1634	24.00	-4.86	8307.570	4.0	57033.600	4.0
204.8416	25.01	-2.30	32856.950	3.0	81659.500	3.0	205.1651	26.01	-5.42	23317.600	2.5	72043.210	1.5
204.8473	17.01	-4.21	128621.900	1.0	177423.100	1.0	205.1711	26.02	-3.25	137544.600	2.0	186268.790	2.0
204.8490	26.01	-1.38	20805.830	4.5	69606.640	3.5	205.1813	23.01	-3.42	30318.630	4.0	79040.400	3.0
204.8495	29.01	-3.45	72724.000	2.0	121524.670	3.0	205.1816	25.01	-1.81	43339.100	2.0	92060.800	1.0
204.8496	25.01	-1.15	32858.840	2.0	81659.500	3.0	205.1825	24.02	-4.15	109721.400	3.0	158442.900	4.0
204.8496	6.01	-2.75	166967.130	.5	215767.770	1.5	205.1842	26.00	-4.54	7376.762	4.0	56097.850	3.0
204.8497	26.02	-4.25	151637.300	1.0	200437.940	2.0	205.1844	26.02	-1.22	83358.880	2.0	132079.910	3.0
204.8513	26.02	-2.05	93512.640	4.0	142312.900	3.0	205.1869	38.01	-1.55	24516.650	0.0	73252.705	0.0
204.8579	28.01	-4.00	51045.460	4.5	99844.130	3.5	205.1905	11.02	-1.70	411548.200	2.5	460267.800	3.5
204.8628	26.00	-3.50	7985.783	2.0	56783.306	3.0	205.1925	25.02	-2.24	88880.080	2.5	137599.200	3.5
204.8689	10.01	-2.67	254165.010	1.5	302961.070	1.5	205.1927	26.00	-1.62	415.932	3.0	49135.003	3.0
204.8717	11.02	-0.97	411963.900	1.5	460759.300	.5	205.1980	28.02	-4.26	134334.900	3.0	183052.700	4.0
204.8728	24.00	-5.18	7927.470	2.0	56722.600	1.0	205.2015	25.01	-2.10	30795.750	4.0	75512.730	3.0
204.8826	27.02	-2.09	83799.600	2.5	132592.400	1.5	205.2020	28.01	-2.92	53037.930	2.5	101754.800	2.5
204.8852	23.01	-3.01	19112.930	4.0	67905.100	3.0	205.2055	26.02	-2.00	76956.790	3.0	125672.830	2.0
204.8907	23.02	-3.81	56529.300	.5	105320.180	1.5	205.2073	27.02	-0.86	83773.400	1.5	132469.000	2.5
204.8927	27.02	-2.58	78434.300	.5	127224.700	.5	205.2074	29.01	-3.46	88362.030	2.0	137077.600	3.0
204.8929	14.01	-1.63	79355.280	2.5	128145.610	3.5	205.2079	25.01	-3.97	33278.390	3.0	81993.850	4.0
204.8929	14.01	-2.93	79355.280	2.5	128145.610	2.5	205.2079	25.01	-2.11	33147.390	5.0	81862.840	4.0
204.8949	25.02	-1.72	85346.720	6.5	134136.600	7.5	205.2090	28.00	-0.83	0.000	4.0	48715.200	4.0
204.8972	9.02	-1.57	395268.130	1.5	444057.440	1.5	205.2183	28.01	-3.70	57420.160	2.5	106133.140	1.5
204.9080	75.00	1.26	0.000	0.0	48802.389	0.0	205.2220	77.00	1.27	6291.287	0.0	55019.006	0.0
204.9119	23.02	-3.17	98383.530	2.5	147169.340	3.5	205.2267	29.02	-4.85	148662.900	2.5	197373.900	3.5
204.9135	24.01	-3.73	19798.010	2.5	68583.440	2.5	205.2271	26.02	-0.53	87901.870	3.0	136612.780	4.0
204.9138	26.01	-6.98	20516.980	2.5	69302.350	1.5	205.2286	26.01	-2.15	25787.600	1.5	74498.150	1.5
204.9179	27.01	-2.57	1597.200	2.0	50381.600	3.0	205.2343	18.01	-4.05	155708.020	.5	204417.230	1.5
204.9183	20.02	-2.36	322663.280	0.0	371447.580	1.0	205.2387	23.01	-1.54	20089.560	1.0	68797.700	2.0
204.9191	23.02	-4.47	98062.220	1.5	146846.320	1.5	205.2406	26.02	-2.67	137561.100	1.0	186268.790	2.0
204.9258	9.03	-3.12	451819.600	1.0	500602.100	1.0	205.2434	28.00	-4.37	1332.153	3.0	50039.180	2.0
204.9303	26.00	-1.46	11976.239	4.0	60757.680	4.0	205.2490	30.02	-0.95	237047.800	2.0	285753.500	2.0
204.9309	23.02	-1.21	98825.190	3.5	147606.500	3.5	205.2528	28.02	-1.96	86646.200	2.0	135351.000	2.0
204.9319	24.00	-3.43	7810.820	1.0	56591.880	2.0	205.2565	26.00	-3.71	8154.713	1.0	56858.650	2.0
204.9335	24.00	-1.43	8307.570	4.0	57088.250	5.0	205.2583	25.02	-0.63	89204.690	4.5	137908.200	5.5
204.9357	25.02	-0.29	88880.080	2.5	137660.240	3.5	205.2618	23.01	-4.65	20242.320	4.0	66945.000	3.0
204.9369	26.02	-4.27	138103.120	4.0	186882.980	3.0	205.2624	26.00	-4.15	0.000	4.0	48702.518	4.0
204.9370	78.00	1.08	0.000	0.0	48795.483	0.0	205.2630	23.01	-4.71	8640.210	2.0	57342.590	2.0
204.9396	26.02	-4.45	73849.100	1.0	122628.340	2.0	205.2649	28.01	-3.24	68131.210	3.5	116833.150	4.5
204.9406	24.03	-2.16	184868.000	3.5	233647.000	3.5	205.2689	26.00	-3.46	11976.239	4.0	60677.230	5.0
204.9420	76.00	1.44	4113.534	0.0	52907.827	0.0	205.2701	25.01	-1.78	43339.100	2.0	92039.800	2.0
204.9428	26.00	-4.66	11976.239	4.0	60754.710	4.0	205.2739	25.02	.28	94397.200	3.5	143097.000	3.5
204.9472	18.01	-3.76	163299.470	2.5	212076.900	2.5	205.2754	56.01	-1.13	21952.422	0.0	70667.465	0.0
204.9475	24.01	-3.61	19528.380	.5	68305.730	1.5	205.2806	27.00	-3.61	1406.840	2.5	50105.050	1.5
204.9477	27.02	-3.24	76518.900	5.5	125296.200	5.5	205.2814	7.02	-1.90	339744.400	2.5	388442.400	1.5
204.9488	.6.01	-2.45	166990.730	1.5	215767.770	1.5	205.2843	26.01	-4.86	13474.430			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
205.3962	21.01	-2.08	27917.690	1.0	76588.480	2.0	205.6834	26.01	-4.76	21711.890	3.5	70314.740	4.5
205.3980	22.01	-2.53	20951.770	2.5	69622.150	2.5	205.6838	23.01	-3.40	20156.640	0.0	68759.400	1.0
205.4003	23.01	-3.82	20089.560	1.0	68759.400	1.0	205.6870	23.01	-1.49	20343.000	2.0	68945.000	3.0
205.4043	10.01	-3.59	254292.190	5.5	302961.070	1.5	205.6913	25.02	-2.35	89307.220	5.5	137908.200	5.5
205.4078	27.00	-1.63	816.000	3.5	49484.050	3.5	205.6932	9.02	-2.02	395268.130	1.5	443868.680	2.5
205.4079	25.02	-1.67	86578.240	3.5	135246.270	2.5	205.6943	26.01	-6.67	27314.930	3.5	75915.210	2.5
205.4081	56.01	-2.14	21952.422	0.0	70635.994	0.0	205.6961	23.02	-2.51	98383.530	2.5	146983.380	2.5
205.4089	27.02	-2.11	91715.100	2.5	140382.900	3.5	205.7036	25.01	-1.99	37851.150	3.0	86449.240	4.0
205.4098	28.01	-2.05	68156.570	1.5	116824.150	2.5	205.7059	26.02	.06	77075.300	1.0	125672.830	2.0
205.4131	10.01	-2.99	254165.010	1.5	302831.800	1.5	205.7069	26.00	-3.97	6928.266	5.0	55525.580	5.0
205.4149	7.01	-4.91	174212.030	2.0	222878.390	2.0	205.7075	9.02	-4.48	395268.130	1.5	443865.310	1.5
205.4213	25.00	-4.34	17282.000	3.5	65946.870	2.5	205.7124	25.01	-4.92	41204.340	5.0	89800.340	4.0
205.4232	24.00	-4.77	7927.470	2.0	56591.880	2.0	205.7130	25.02	-1.88	86520.940	2.5	135116.800	1.5
205.4235	29.01	-1.22	69867.810	2.0	118532.150	2.0	205.7131	29.01	-2.31	85388.770	2.0	133984.600	3.0
205.4280	23.01	-2.94	20980.920	2.0	69644.200	3.0	205.7144	24.01	-3.56	32836.840	3.5	81432.360	3.5
205.4310	28.01	-1.18	23108.280	2.5	71770.830	2.5	205.7194	25.00	-4.23	17282.000	3.5	65876.340	3.5
205.4380	27.02	-2.54	82920.700	3.5	131581.600	3.5	205.7201	23.01	-1.54	13490.840	2.0	62085.020	2.0
205.4400	29.01	-1.32	67916.390	1.0	116576.810	0.0	205.7223	26.00	-4.19	704.003	2.0	49297.660	1.0
205.4418	24.03	-2.09	110700.000	3.5	159360.000	3.5	205.7226	30.02	-1.91	234384.000	3.0	282977.600	4.0
205.4422	27.02	-2.08	79425.300	2.5	128085.200	2.5	205.7230	32.00	.78	7017.204	0.0	55626.256	0.0
205.4437	25.02	-3.37	85077.090	4.5	133736.640	5.5	205.7277	27.02	-4.42	79425.300	2.5	128017.700	3.5
205.4450	32.00	.78	1371.178	0.0	50046.006	0.0	205.7330	26.01	-1.71	13474.430	2.5	62065.570	3.5
205.4485	24.01	-3.54	42898.120	2.5	91556.540	1.5	205.7348	23.01	-2.09	13542.680	3.0	62133.390	3.0
205.4492	26.02	-1.39	93388.750	4.0	142047.000	4.0	205.7366	28.01	-1.92	10115.660	2.5	58705.950	1.5
205.4509	24.01	-1.98	20512.750	5.5	69170.600	5.5	205.7416	25.01	-2.35	30523.450	6.0	79112.560	5.0
205.4532	22.01	-1.96	4897.600	3.5	53554.900	2.5	205.7417	16.01	-2.96	115870.400	1.5	164459.500	2.5
205.4548	25.02	-1.30	91906.100	2.5	140563.030	3.5	205.7474	28.01	-1.52	57420.160	2.5	106007.890	2.5
205.4562	18.03	-2.52	250906.600	1.5	299563.200	5.5	205.7506	8.02	-2.75	366594.010	2.0	415181.000	3.0
205.4621	25.01	-2.26	33147.390	5.0	81802.580	6.0	205.7510	25.02	-4.44	86051.500	2.5	134638.390	1.5
205.4648	26.02	-1.74	93392.450	3.0	142047.000	4.0	205.7512	18.01	-1.70	147503.020	1.5	196089.870	2.5
205.4650	26.02	-1.82	69695.730	4.0	118350.240	4.0	205.7522	30.02	-1.66	234384.000	3.0	282970.600	3.0
205.4694	27.00	-4.02	4142.660	3.5	52796.130	2.5	205.7548	28.02	-2.98	82277.000	1.0	130863.000	1.0
205.4714	24.03	-2.06	184868.000	3.5	233521.000	4.5	205.7548	24.03	-1.70	10950.000	2.5	158536.000	1.5
205.4757	10.01	-3.70	254165.010	1.5	302816.980	1.5	205.7560	26.01	-7.57	20516.980	2.5	69102.690	2.5
205.4789	26.01	-3.77	13474.430	2.5	62125.660	1.5	205.7602	10.01	-4.09	280262.330	3.5	328847.050	4.5
205.4793	23.02	-2.78	56669.050	1.5	105320.180	1.5	205.7613	25.01	-4.57	32758.390	3.0	81862.840	4.0
205.4803	10.02	-3.71	391414.020	2.0	440064.900	1.0	205.7776	28.02	-1.84	85834.800	5.0	134415.400	4.0
205.4809	24.01	-1.90	20519.850	4.5	69170.600	5.5	205.7834	28.01	-1.82	23796.180	1.5	72375.420	1.5
205.4921	27.02	-2.59	83938.900	3.5	132587.000	4.5	205.7876	23.02	-4.76	49805.290	3.5	98383.530	2.5
205.4958	25.02	.38	94697.850	3.5	143345.070	3.5	205.7878	28.01	-1.24	68154.310	1.5	116732.510	2.5
205.4958	26.01	-5.01	23317.600	2.5	71964.810	2.5	205.7878	10.01	-4.11	280268.960	2.5	328847.150	3.5
205.4979	29.01	-1.18	22846.970	2.0	71493.680	2.0	205.7886	27.02	-1.92	76791.100	1.5	125369.100	2.5
205.5061	28.01	-2.36	55018.710	2.5	103663.500	1.5	205.7886	24.03	-3.42	184868.000	3.5	233446.000	2.5
205.5073	30.02	-1.67	233610.400	2.0	282254.900	1.0	205.7891	24.01	-2.07	32854.460	4.5	81432.360	3.5
205.5155	23.01	-3.14	13490.840	2.0	62133.390	3.0	205.7917	24.01	-4.29	32855.090	2.5	81432.360	3.5
205.5157	16.01	-2.45	115817.000	2.5	164459.500	2.5	205.7928	26.02	.01	97041.380	3.0	145618.390	2.0
205.5162	24.02	-3.06	69780.900	1.0	118423.300	2.0	205.7933	16.01	-3.59	115870.400	1.5	164447.300	2.5
205.5191	11.02	-1.74	411963.900	1.5	460605.600	1.5	205.7989	24.01	-1.85	36101.820	3.5	84677.390	3.5
205.5264	26.01	-1.77	18360.650	1.5	67000.630	2.5	205.7995	23.02	-2.51	98825.190	3.5	147400.620	4.5
205.5347	25.01	-3.35	33248.320	4.0	81886.330	5.0	205.8025	26.01	-5.23	13474.430	2.5	62049.170	2.5
205.5353	25.02	-1.81	94707.200	4.5	143345.070	3.5	205.8073	25.02	-1.16	94771.470	2.5	143345.070	3.5
205.5377	28.02	-3.72	134415.400	4.0	183052.700	4.0	205.8082	18.01	-1.17	147503.020	1.5	196076.390	1.5
205.5426	24.00	-8.40	0.000	3.0	48636.140	3.0	205.8085	23.01	-5.98	13511.710	1.0	62085.020	2.0
205.5445	23.02	-2.55	107165.900	1.5	155801.600	1.5	205.8101	26.00	-1.86	11976.230	4.0	60549.180	5.0
205.5479	27.02	-1.64	56373.800	2.5	105008.700	3.5	205.8114	26.01	-2.51	44915.070	3.5	93487.710	3.5
205.5483	12.02	-4.42	426868.100	1.0	475502.900	1.0	205.8117	26.02	-4.49	83138.230	5.0	131710.790	5.0
205.5487	28.00	-2.54	2216.519	2.0	50851.220	1.0	205.8119	11.02	-1.67	417415.500	1.5	465988.000	.5
205.5535	23.01	-2.24	13542.680	3.0	62176.240	4.0	205.8133	14.00	-1.03	6298.850	2.0	54871.031	1.0
205.5580	24.02	-4.08	109434.200	2.0	158066.700	3.0	205.8157	23.01	-4.41	19166.190	1.0	67737.800	2.0
205.5580	7.02	-3.04	339744.400	2.5	388376.900	2.5	205.8168	26.01	-3.11	13673.210	1.5	62244.570	1.5
205.5586	24.01	-0.00	0.000	2.5	48632.360	3.5	205.8204	9.03	-3.73	451819.600	1.0	500390.100	2.0
205.5597	28.01	-3.73	68154.310	1.5	116786.420	5.5	205.8209	26.02	-1.59	77102.430	2.0	125672.830	2.0
205.5605	28.01	-1.73	67880.160	2.5	116512.060	3.5	205.8221	19.02	-1.17	240829.900	3.5	289400.000	2.5
205.5661	26.02	-1.74	87901.870	3.0	136532.450	2.0	205.8231	25.01	-3.28	41190.470	6.0	89760.330	5.0
205.5673	16.01	-3.29	115817.000	2.5	164447.300	2.5	205.8234	24.01	-2.84	42986.730	1.5	91556.540	1.5
205.5684	25.02	-1.35	86486.770	1.5	135116.800	1.5	205.8239	26.01	-4.96	44915.070	3.5	93484.750	3.5
205.5720	24.01	-1.36	32603.730	2.5	81232.910	2.5	205.8251	27.02	-1.55	77121.100	4.5	125690.500	4.5
205.5757	25.02	-3.87	89307.220	5.5	137935.530	4.5	205.8341	21.01	-1.90	28021.210	2.0	76588.480	2.0
205.5779	23.02	-2.07	97512.000	1.5	146139.800	2.5	205.8342	23.01	-1.06	13609.000	4.0	62176.240	4.0
205.5783	28.01	-2.04	52738.450	2.5	101366.140	2.5	205.8348	25.02	-1.94	100001.300	2.5	148568.400	2.5
205.5816	25.00	-3.73	17282.000	3.5	65908.920	4.5	205.8365	30.02	-1.44	234384.000	3.0	282950.700	2.0
205.5863	26.02	-1.03	84159.550	4.0	132785.360	4.0	205.8505	9.01	-1.24	207699.070	1.0	256262.460	1.0
205.5884	26.01	-3.34	25981.650	3.5	74606.970	2.5	205.8558	24.00	-7.93	0.000	3.0	48562.160	4.0
205.5942	14.00	-2.41	15394.370	0.0	64018.310	1.0	205.8566	26.02	.64	83429.610	6.0	131991.580	7.0
205.5954	25.01	-2.83	30523.450	6.0	79147.100	7.0	205.8566	24.00	-7.95	7593.160	2.0	56155.120	2.0
205.5998	18.01	-3.29	159706.460	.5	208329.080	.5	205.8584	26.00	-3.47	6928.266	5.0	55489.810	6.0
205.6123	25.02	-3.82	97023.800	3.5	145643.450	2.5	205.8620	29.01	-3.27	71531.500	3.0	120092.200	2.0
205.6152	26.02	.04	73727.640	2.0	122346.610	3.0	205.8631	9.01					

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
205.9398	23.01	-4.28	13542.680	3.0	62085.020	2.0
205.9423	9.02	-1.48	395385.660	2.5	443927.410	3.5
205.9434	27.02	-3.37	83773.400	1.5	132314.900	5
205.9447	11.02	-1.22	444748.100	1.5	493289.300	1.5
205.9459	26.01	-3.16	25428.800	5.5	73969.710	5.5
205.9496	9.02	-3.66	418248.560	1.5	466788.600	2.5
205.9514	10.01	-3.29	254292.190	5	302831.800	5
205.9546	26.00	-6.39	704.003	2.0	49242.872	3.0
205.9554	26.00	-3.43	704.003	2.0	49242.880	2.0
205.9555	23.01	-5.71	13594.730	2.0	62133.390	3.0
205.9577	26.01	-3.20	25428.800	5.5	73966.940	6.5
205.9673	25.02	-2.51	85200.760	5.5	133736.640	5.5
205.9687	26.02	-.25	77102.430	2.0	125637.980	3.0
205.9731	25.01	-2.86	33278.390	3.0	81812.900	2.0
205.9737	26.02	-3.94	93512.640	4.0	142047.000	4.0
205.9786	24.02	-2.23	109533.500	4.0	158066.700	3.0
205.9821	25.01	-2.09	33248.320	4.0	81780.700	3.0
205.9832	7.01	-1.95	174212.030	2.0	222744.160	1.0
205.9838	9.02	-3.16	442636.270	3.5	491168.250	2.5
205.9900	28.00	-1.72	204.786	3.0	48735.308	2.0
205.9903	26.00	-4.01	7376.762	4.0	55907.220	5.0
205.9956	23.03	-.45	217350.000	3.0	265879.200	2.0
205.9973	26.00	-3.52	7376.762	4.0	55905.560	4.0
205.9999	24.01	-2.11	42898.120	2.5	91426.310	2.5
206.0074	18.01	-2.67	160239.350	1.5	208765.770	5
206.0109	27.02	-3.61	83789.300	5	132314.900	5
206.0114	6.00	-4.29	71352.510	0.0	119878.000	1.0
206.0130	23.03	-.86	215957.700	3.0	264482.800	2.0
206.0143	10.01	-3.08	254292.190	5	302816.980	1.5
206.0160	23.01	-6.28	13609.000	4.0	62133.390	3.0
206.0194	28.00	-1.08	879.813	2.0	49403.420	1.0
206.0213	26.00	-2.99	704.003	2.0	49227.160	3.0
206.0267	23.01	-5.06	208.890	3.0	48730.760	4.0
206.0296	7.02	-1.74	339855.700	3.5	388376.900	2.5
206.0304	9.03	-1.50	452081.100	2.0	500602.100	1.0
206.0330	27.02	-3.24	77472.300	2.5	125992.700	2.5
206.0334	25.02	-.93	86520.940	2.5	135041.250	1.5
206.0357	9.02	-4.09	48188.480	5	466708.250	1.5
206.0365	28.01	-2.50	52738.450	2.5	101258.010	1.5
206.0396	26.02	-2.54	134937.840	2.0	183456.690	3.0
206.0411	23.01	-7.01	2604.820	1.0	51123.310	2.0
206.0440	26.00	-5.60	6928.266	5.0	55446.060	4.0
206.0556	24.00	-8.46	0.000	3.0	48515.080	3.0
206.0557	26.02	-2.58	88694.670	5.0	137209.730	4.0
206.0601	28.01	-3.62	66571.340	2.5	115085.360	3.5
206.0609	23.01	-5.01	339.210	4.0	48853.040	5.0
206.0627	26.02	-1.42	69836.830	3.0	118350.240	4.0
206.0640	77.00	1.19	7017.204	0.0	55545.816	0.0
206.0689	25.02	-.01	94697.850	3.5	143209.800	2.5
206.0742	27.02	-1.87	91715.100	2.5	140225.800	3.5
206.0754	28.00	-2.20	204.786	3.0	48715.200	4.0
206.0755	25.00	-4.74	17451.520	2.5	65961.900	1.5
206.0806	26.01	-3.90	27620.390	2.5	76129.580	1.5
206.0817	28.01	-1.51	52738.450	2.5	101247.370	2.5
206.0844	28.02	-4.74	135351.000	2.0	183859.300	3.0
206.0851	18.01	-1.49	161089.310	5	209597.450	1.5
206.0868	24.01	-4.21	19798.010	2.5	68305.730	1.5
206.0950	26.00	-2.80	4690.180	2.5	53195.980	2.5
206.0993	28.01	-1.99	68281.620	5	116786.420	5
206.1017	25.01	-2.75	32818.100	0.0	81322.330	1.0
206.1028	26.02	-3.05	139509.440	5.0	188013.400	4.0
206.1062	24.01	-1.75	36101.820	3.5	84604.990	2.5
206.1092	26.02	-4.61	140453.100	3.0	188955.560	3.0
206.1098	23.01	-3.52	33278.390	3.0	81780.700	3.0
206.1128	26.00	-3.51	6928.266	5.0	55429.890	5.0
206.1168	26.01	-5.12	13474.430	2.5	61975.110	1.5
206.1170	23.01	-5.30	8841.970	3.0	57342.590	2.0
206.1180	16.01	-3.30	115817.000	2.5	164317.400	1.5
206.1184	23.03	-1.05	218100.000	4.0	266600.300	5.0
206.1213	26.02	-2.35	84159.550	4.0	132659.170	4.0
206.1215	22.01	-3.12	4628.610	2.5	53128.170	1.5
206.1239	24.02	-2.11	109943.900	5.0	158442.900	4.0
206.1331	28.01	-1.47	67694.640	2.5	116191.470	2.5
206.1338	24.00	-3.45	8095.210	3.0	56591.880	2.0
206.1345	27.02	-3.90	91715.100	2.5	140211.600	2.5
206.1362	9.02	-2.64	442636.270	3.5	491132.380	3.5
206.1394	25.00	-4.13	17451.520	2.5	65946.870	2.5
206.1405	9.02	-1.24	442636.270	3.5	491131.370	4.5
206.1444	24.01	-6.19	21822.860	2.5	70317.040	2.5
206.1473	27.02	-1.35	76518.900	5.5	125012.400	4.5
206.1524	10.01	-4.80	280173.010	4.5	328665.320	5.5
206.1527	24.01	-8.11	21824.820	1.5	70317.040	2.5
206.1532	25.01	-3.87	32787.600	4.0	81279.710	4.0
206.1557	26.02	-.04	40999.870	2.0	89491.390	1.0
206.1563	24.01	-1.14	0.000	2.5	48491.390	2.5
206.1596	17.01	-1.13	110295.800	4.0	158786.400	3.0
206.1604	26.02	-1.35	89697.520	3.0	138187.930	3.0
206.1609	23.01	-6.83	13594.730	2.0	62085.020	2.0
206.1647	17.01	-1.35	110297.000	3.0	158786.400	3.0
206.1690	76.00	1.58	2661.698	0.0	51165.595	0.0
206.1700	83.00	1.34	0.000	0.0	48503.662	0.0
206.1754	17.01	-2.23	110299.500	2.0	158786.400	3.0
206.1757	25.00	-4.69	17282.000	3.5	57678.810	4.5
206.1758	26.02	-.39	76956.790	3.0	125443.580	4.0
206.1795	25.01	-4.31	32836.400	1.0	81322.330	1.0
206.1834	27.02	-3.17	91715.100	2.5	140200.100	1.5
206.1838	9.02	-1.25	395268.130	1.5	443753.060	2.5
206.1859	26.02	-3.57	139625.170	4.0	188109.580	3.0
206.1881	26.02	-4.90	66464.640	3.0	114948.550	3.0
206.1910	30.01	2.53	0.000	0.0	48498.722	0.0
206.1911	25.02	-.12	100085.200	1.5	148568.400	2.5
206.1919	9.02	-1.70	395385.660	2.5	443868.680	2.5
206.2007	26.02	-2.43	134976.220	3.0	183457.150	4.0
206.2024	26.01	-4.72	44915.070	3.5	93395.600	2.5
206.2055	24.01	-5.00	20512.750	5.5	68992.550	4.5
206.2062	9.02	-1.47	395385.660	2.5	443865.310	1.5
206.2086	26.02	-.57	92523.910	5.0	141002.990	4.0
206.2115	26.01	-2.46	13673.210	1.5	62151.610	2.5
206.2153	27.02	-.77	83799.600	2.5	132277.100	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
206.2157	20.02	-.82	282571.430	1.0	331048.860	0.0
206.2207	14.01	-3.44	65500.730	.5	113976.980	1.5
206.2228	26.00	-3.45	0.000	4.0	48475.740	3.0
206.2293	24.01	-.97	20518.330	3.5	68992.550	4.5
206.2309	9.02	-3.55	418248.560	1.5	466722.420	2.5
206.2317	9.02	-2.92	442694.580	1.5	491168.250	2.5
206.2331	23.01	-5.41	106.630	2.0	48579.960	3.0
206.2340	28.01	-4.13	67694.640	2.5	116167.760	1.5
206.2346	28.00	-1.15	2216.519	2.0	50689.490	2.0
206.2358	24.01	-1.94	20519.850	4.5	68992.550	4.5
206.2395	26.01	-5.32	20830.520	2.5	69302.350	1.5
206.2404	29.01	-.21	67916.390	1.0	116388.000	2.0
206.2405	17.01	-1.72	110297.000	3.0	158768.600	2.0
206.2485	24.02	-3.24	110154.000	4.0	158623.700	4.0
206.2511	17.01	-1.69	110299.500	2.0	158768.600	2.0
206.2595	28.00	-3.28	204.786	3.0	48671.900	3.0
206.2618	17.01	-2.64	110302.000	1.0	158768.600	2.0
206.2631	23.02	-1.70	97512.000	1.5	145978.270	2.5
206.2642	26.01	-3.49	44929.590	2.5	93395.600	2.5
206.2702	28.01	-4.51	70635.460	2.5	119100.060	1.5
206.2715	11.02	-.43	444825.000	2.5	493289.300	1.5
206.2728	24.02	-1.73	65890.900	3.0	114354.900	4.0
206.2743	25.02	-1.93	94697.850	3.5	143161.500	4.5
206.2750	25.01	-3.25	32858.840	2.0	81322.330	1.0
206.2764	23.01	-5.16	16340.970	3.0	64804.130	2.0
206.2779	23.02	-4.70	98383.530	2.5	146846.320	1.5
206.2787	26.01	-4.16	16369.390	3.5	64832.000	4.5
206.2790	34.00	1.24	2500.383	0.0	50978.415	0.0
206.2806	26.02	-4.48	139680.470	3.0	188142.640	2.0
206.2830	14.01	-3.74	65500.730	.5	113962.340	5.0
206.2912	9.02	-4.77	418248.560	1.5	466708.250	1.5
206.2920	15.00	-3.71	11360.800	1.5	59820.300	.5
206.2955	24.00	-5.62	0.000	3.0	48458.670	2.0
206.2985	26.02	-1.39	83646.980	1.0	132104.940	2.0
206.3002	25.02	-3.68	85346.720	6.5	133804.280	6.5
206.3022	11.02	-1.40	411963.900	1.5	460421.000	2.5
206.3073	30.02	-1.92	237047.800	2.0	285503.700	1.0
206.3081	18.01	-2.02	160239.350	1.5	208695.070	1.5
206.3088	25.02	-2.93	89204.690	4.5	137660.240	3.5
206.3090	30.02	-4.58	234384.000	3.0	282839.500	3.0
206.3115	11.02	-.12	415173.200	1.5	463628.100	2.5
206.3124	23.01	-2.35	20343.000	2.0	68797.700	2.0
206.3126	25.01	-1.65	37847.900	2.0	86302.550	3.0
206.3141	25.02	.38	94707.200	4.5	143161.500	4.5
206.3199	24.01	-5.55	20024.180	3.5	68477.110	4.5
206.3220	26.01	-4.83	13673.210	1.5	62125.660	1.5
206.3254	24.01	-.76	25033.950	3.5	73485.600	3.5
206.3264	25.01	-1.64	37851.150	3.0	86302.550	3.0
206.3279	28.01	-1.47	67696.640	2.5	116145.690	3.5
206.3293	26.02	-4.45	130756.860	6.0	179207.570	5.0
206.3313	26.02	-2.83	134360.400	4.0	182810.660	5.0
206.3420	28.00	-1.34	879.813	2.0	49327.560	3.0
206.3443	30.02	-.85	233610.400	2.0	282057.600	3.0
206.3451	16.01	-2.97	115870.400	1.5	164317.400	1.5
206.3456	23.02	-3.64	98399.420	.5	146846.320	1.5
206.3498	7.02	.75	339744.400	2.5	388190.300	3.5
206.3525	20.02	-1.30	277022.400	3.0	325467.670	2.0
206.3554	25.03	-2.36	119445.500	2.0	167890.100	2.0
206.3571	23.03	-.89	215957.700	3.0	264401.900	4.0
206.3578	20.02	-2.42	323003.560	1.0	371447.580	1.0
206.3613	11.02	-.59	444748.100	1.5	493191.300	.5
206.3633	26.01	-3.12	26055.400	2.5	74498.150	1.5
206.3659	21.01	-.90	27917.690	1.0	76359.810	1.0
206.3676	26.01	-1.08	15844.710	4.5	64286.440	3.5
206.3686	28.02	-2.63	63472.600	2.0	111914.100	2.0
206.3740	27.00	-1.86	1406.840	2.5	49847.080	2.5
206.3764	18.01	-1.70	147875.860	2.5	196315.510	2.5
206.3805	27.01	-1.07	1597.200	2.0	50035.900	3.0
206.3810	27.02	-1.23	82363.300	4.5	130801.900	4.5
206.3811	24.01	-1.66	25047.040	2.5	73485.600	3.5
206.3821	25.02	-.13	94771.470	2.5	143209.800	2.5
206.3828	29.01	-2.76	69704.800	4.0	118142.970	3.0
206.3859	29.01	-2.13	55388.770	2.0	13826.200	2.0
206.3866	29.01	-2.31	88362.030	2.0	136799.300	2.0
206.3904	23.02	-3.01	107060.410	.5	155496.800	1.5
206.3908	23.01	-6.30	2687.010	2.0	51123.310	2.0
206.3963	16.01	-4.70	115817.000	2.5	164252.000	1.5
206.3979	23.01	-3.71	13741.610	3.0	62176.240	4.0
206.3993	7.02	.86	339855.700	3.5	388290.000	4.5
206.4007	18.01	-1.32	160239.350	1.5	208673.320	2.5
206.4035	25.01	-1.52	30679.240	5.0	79112.560	5.0
206.4094	26.02	-3.69	86847.110	2.0	135279.600	2.0
206.4099	8.01	-4.39	206730.880	.5	255162.600	.5
206.4134	26.00	-1.97	704.003	2.0	49135.003	3.0
206.4142	28.02	-3.58	71841.900	1.0	120272.700	1.0
206.4211	18.01	-.38	147875.860	2.5	196305.040	3.5
206.4214	26.02	-4.84	139680.470	3.0	18109.580	3.0
206.4249	24.02	-4.71	111375.000	3.0	159803.300	4.0
206.4285	21.01	-.15	28161.030	3.0	76588.480	2.0
206.4306	10.01	-3.26	280268.960	2.5	328695.900	2.5
206.4307	10.01	-4.66	280268.960	2.5	328695.880	1.5
206.4328	23.01	-3.91	30613.970	4.0	79040.400	3.0
206.4370	28.00	-1.71	1713.080	1.0	50138.530	0.0
206.4385	16.01	-3.06	115892.300	.5	164317.400	1.5
206.4397	25.00	-4.65	17451.520	2.5	65876.340	3.5
206.4423	17.01	-2.81	110299.500	2.0	158723.700	1.0
206.4485	25.01	-3.90	32856.950	3.0	81279.710	4.0
206.4530	17.01	-2.85	110302.000	1.0	158723.700	1.0
206.4594	17.01	-3.70	110303.500	0.0	158723.700	1.0
206.4628	9.02	-4.02	442748.850	2.5	491168.250	2.5
206.4641	12.02	-.53	536152.000	1.0	584571.100	2.0
206.4654	25.01	-1.74	32818.100	0.0	81236.890	1.0
206.4756	23.01	-2.83	20343.000	2.0	68759.400	1.0
206.4860	26.00	-6.33	7376.762	4.0	55790.720	3.0
206.4875	27.00	-3.06	4690.180	2.5	53103.780	3.5
206.4905	12.02	.29	425640.300	2.0	474053.200	3.0
206.4914	14.01	-2.01	108779.000	1.5	157191.700	2.5
206.4914	20.02	-4.62	325467.670	2.0	373880.370	3.0
206.4931	22.02	-2.28	86283.800	4.5	134696.100	5.5

AVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
206.4979	25.01	-2.74	33248.320	4.0	81659.500	3.0	206.7011	24.01	-1.65	25043.100	1.5	73406.680	.5
206.4980	26.02	-.91	109570.840	2.0	157982.000	3.0	206.7049	28.01	-.70	66579.710	1.5	114942.420	1.5
206.5042	26.02	-3.44	69836.830	3.0	118246.520	3.0	206.7082	26.00	-2.35	0.000	4.0	48361.920	4.0
206.5049	26.00	-3.45	888.132	1.0	49297.660	1.0	206.7143	25.01	-2.62	37847.900	2.0	86208.000	1.0
206.5076	16.01	-3.70	115870.400	1.5	164279.300	.5	206.7151	26.02	-3.40	135096.840	3.0	183457.150	4.0
206.5082	26.02	-4.35	69837.760	2.0	118246.520	3.0	206.7158	23.02	-2.10	56922.500	2.5	105282.650	2.5
206.5119	14.01	-1.06	108779.000	1.5	157186.900	1.5	206.7171	26.02	-2.88	135096.840	3.0	183456.690	3.0
206.5192	28.01	-1.59	52738.450	2.5	101144.630	3.5	206.7177	16.01	-4.44	115892.300	.5	164252.000	1.5
206.5200	32.00	.94	483.945	0.0	48905.405	0.0	206.7199	27.02	-1.99	82920.700	3.5	131279.900	3.5
206.5217	26.02	-.57	89697.520	3.0	138103.120	4.0	206.7201	25.02	-1.03	94850.660	1.5	143209.800	2.5
206.5236	26.02	-2.33	84159.550	4.0	132564.710	5.0	206.7210	76.01	2.94	3548.931	0.0	51923.310	0.0
206.5254	24.01	-.90	36272.660	4.5	84677.390	3.5	206.7285	9.02	-2.27	395268.130	1.5	443625.310	2.5
206.5271	26.02	-.88	89763.590	4.0	138187.930	3.0	206.7309	26.02	-.04	89907.850	5.0	138264.470	6.0
206.5271	23.02	-3.05	61777.150	1.5	110181.470	2.5	206.7326	9.02	-3.30	418188.480	.5	466544.700	1.5
206.5281	11.02	-1.36	412201.500	.5	460605.600	1.5	206.7335	14.00	-2.46	15394.370	0.0	63750.390	1.0
206.5319	23.02	-3.18	107165.900	1.5	155569.100	2.5	206.7374	15.00	-4.07	11360.800	1.5	59715.900	1.5
206.5325	28.01	-3.67	52205.950	3.5	100609.010	2.5	206.7380	29.01	-2.99	72724.000	2.0	121078.960	3.0
206.5357	24.01	-2.92	25033.950	3.5	73436.270	2.5	206.7383	11.02	-.98	418418.100	1.5	466773.000	1.5
206.5357	25.02	-1.71	88880.080	2.5	137822.800	2.5	206.7397	26.00	-2.45	888.132	1.0	49242.680	2.0
206.5387	30.02	-.59	234576.000	4.0	282977.600	4.0	206.7397	8.01	-4.83	206786.340	1.5	255140.900	1.5
206.5435	25.01	-2.00	32836.400	1.0	81236.890	1.0	206.7408	25.02	.29	100001.300	2.5	148355.600	2.5
206.5443	26.02	-4.92	138054.590	5.0	186454.890	5.0	206.7451	11.02	-2.34	417415.500	1.5	465768.800	2.5
206.5490	24.01	-.32	0.000	2.5	48399.190	1.5	206.7461	18.01	-1.97	159393.310	1.5	207746.380	2.5
206.5492	25.02	-3.97	94697.850	3.5	143097.000	3.5	206.7494	22.03	.12	80378.600	.5	128730.900	1.5
206.5498	25.01	-1.85	31514.350	4.0	79913.350	4.0	206.7500	78.00	.50	0.000	0.0	48367.590	0.0
206.5498	26.01	-2.68	44929.590	2.5	93328.600	1.5	206.7516	26.02	-3.28	138103.120	4.0	184454.890	5.0
206.5509	23.01	-5.27	2687.010	2.0	51085.770	3.0	206.7534	28.01	-2.92	70748.700	.5	119100.060	1.5
206.5512	23.01	-2.49	30641.710	3.0	79040.400	3.0	206.7627	20.02	-1.02	279741.800	2.0	328090.990	2.0
206.5545	27.01	-.98	950.300	3.0	49348.200	4.0	206.7757	25.02	-2.65	91948.300	3.5	140294.440	3.5
206.5555	23.02	-2.89	56922.500	2.5	105320.180	1.5	206.7829	10.01	-3.07	280473.580	1.5	328819.050	2.5
206.5570	74.01	1.78	4678.136	0.0	53090.923	0.0	206.7836	24.00	-4.28	7810.820	1.0	56155.120	2.0
206.5584	26.02	-4.62	141399.040	2.0	189796.030	1.0	206.7842	23.02	-2.85	98825.190	3.5	147169.340	3.5
206.5591	25.01	-2.11	37811.570	1.0	86208.400	1.0	206.7865	25.01	-2.03	43696.190	3.0	92039.800	2.0
206.5624	24.01	-3.02	32836.840	3.5	81232.910	2.5	206.7870	27.02	-.48	123123.100	1.5	171466.600	2.5
206.5641	28.01	-3.95	67880.160	2.5	116275.810	3.5	206.7870	27.02	-.48	123123.100	1.5	171466.600	2.5
206.5686	30.02	-2.11	234576.000	4.0	282970.600	3.0	206.7874	23.01	-6.51	13741.610	3.0	62085.020	2.0
206.5690	25.02	-1.97	89204.690	4.5	137599.200	3.5	206.7915	26.01	-.65	21308.080	1.5	69650.540	2.5
206.5737	25.00	-3.86	17568.480	1.5	65961.900	1.5	206.7922	25.01	-2.32	37847.900	2.0	86190.180	2.0
206.5742	28.01	-3.32	70706.770	1.5	119100.060	1.5	206.7929	24.01	-3.70	19528.380	.5	67870.500	1.5
206.5747	24.01	-1.44	25043.100	1.5	73436.270	2.5	206.8033	26.01	-3.93	13904.870	.5	62244.570	1.5
206.5759	23.01	-3.69	17910.980	4.0	66303.880	3.0	206.8042	15.00	-3.91	11376.400	2.5	59715.900	1.5
206.5807	23.01	-6.29	13741.610	3.0	62133.390	3.0	206.8052	28.01	-4.55	71457.740	3.5	119796.980	2.5
206.5816	23.01	-5.84	339.210	4.0	48730.760	4.0	206.8061	25.01	-2.46	37851.150	3.0	86190.180	2.0
206.5862	28.01	-1.51	66579.710	1.5	114970.190	.5	206.8069	26.02	-4.54	136612.780	4.0	184951.620	3.0
206.5886	25.02	-.04	85346.720	6.5	133736.640	5.5	206.8075	28.01	-2.80	68735.980	2.5	117074.700	3.5
206.5887	27.02	-.71	78927.800	3.5	127317.700	3.5	206.8080	21.01	-.42	28021.210	2.0	76359.810	1.0
206.5891	25.02	-2.32	94707.200	4.5	143097.000	3.5	206.8097	27.02	-1.16	83938.900	3.5	132277.100	3.5
206.5916	24.01	-.89	25047.040	2.5	73436.270	2.5	206.8161	25.02	-1.40	89898.080	.5	138234.790	1.5
206.5946	26.00	-1.37	11976.239	4.0	60364.760	3.0	206.8249	26.02	.18	40999.870	2.0	89334.510	2.0
206.5954	25.02	-1.21	91906.100	2.5	140294.440	3.5	206.8251	7.02	-.69	339855.700	3.5	388190.300	3.5
206.5958	26.02	-4.65	139625.170	4.0	188013.400	1.5	206.8317	26.01	-1.46	38214.500	1.5	86547.550	2.5
206.5968	24.01	-4.04	32844.920	1.5	81232.910	2.5	206.8330	51.00	1.34	0.000	0.0	48348.184	0.0
206.5998	28.02	-3.99	133095.000	3.0	181482.300	4.0	206.8341	25.02	.21	91948.300	3.5	140280.800	4.5
206.6006	26.01	-1.06	18886.750	.5	67273.860	1.5	206.8382	24.01	-3.41	19528.380	.5	67859.910	.5
206.6011	16.01	-3.75	115892.300	.5	164279.300	.5	206.8409	23.02	-3.74	107165.900	1.5	155496.800	1.5
206.6019	25.01	-2.33	43696.190	3.0	920512.620	2.5	206.8410	24.01	-4.63	20512.620	2.5	68843.510	3.5
206.6076	26.02	-1.53	141399.040	2.0	189784.520	2.0	206.8426	25.01	-7.11	27588.230	3.0	75918.730	2.0
206.6086	9.02	-2.43	395385.660	2.5	443770.900	3.5	206.8461	25.01	-7.79	27589.030	2.0	75918.730	2.0
206.6103	23.02	-4.99	109854.870	3.5	158239.700	2.5	206.8463	26.01	-4.01	38214.500	1.5	86544.140	1.5
206.6107	27.00	-3.49	4690.180	2.5	53074.920	1.5	206.8510	18.01	-1.38	161048.640	1.5	209377.170	2.5
206.6128	25.02	-.99	89052.440	3.5	137436.700	4.5	206.8535	23.01	-1.52	20617.050	2.0	68945.000	3.0
206.6168	26.01	-2.23	38164.240	2.5	86547.550	2.5	206.8572	24.02	-1.02	66027.800	4.0	114354.900	4.0
206.6182	28.02	-1.73	85834.800	5.0	134217.800	5.0	206.8588	26.02	-2.86	69836.830	3.0	118163.560	2.0
206.6199	26.00	-3.61	0.000	4.0	48382.585	5.0	206.8594	26.02	-1.77	141469.450	1.0	189796.030	1.0
206.6235	27.00	-2.21	816.000	3.5	49197.740	4.5	206.8596	25.02	-1.46	84610.530	.5	132937.060	.5
206.6240	29.01	-.38	68850.060	0.0	117231.690	1.0	206.8615	28.00	-1.57	1713.080	1.0	50039.180	2.0
206.6262	25.01	-4.05	33278.390	3.0	81659.500	3.0	206.8627	26.02	-2.91	69837.760	2.0	118163.560	2.0
206.6300	5.02	-.14	0.000	0.0	48395.683	0.0	206.8639	25.02	-2.27	94771.470	2.5	143097.000	3.5
206.6312	8.02	-1.86	366801.040	3.0	415181.000	3.0	206.8650	32.00	1.45	483.945	0.0	48824.650	0.0
206.6369	25.01	-1.76	37811.570	1.0	86190.180	2.0	206.8654	24.01	-3.30	20518.330	3.5	68843.510	3.5
206.6372	25.02	.58	85077.090	4.5	133455.640	5.5	206.8672	25.00	-3.79	17637.150	.5	65961.900	1.5
206.6378	25.00	-3.72	17568.480	1.5	65946.870	2.5	206.8674	21.01	-.78	27917.690	1.0	76242.400	0.0
206.6393	25.01	-3.70	32858.840	2.0	81236.890	1.0	206.8697	18.01	-1.47	161089.310	.5	209413.480	1.5
206.6400	9.01	-2.17	238323.380	3.0	286701.280	2.0	206.8705	28.02	-4.12	131588.300	3.0	181482.300	4.0
206.6403	24.01	-3.67	32855.090	2.5	81232.910	2.5	206.8719	24.01	-4.20	20519.850	4.5	68843.510	3.5
206.6414	28.01	-1.83	10115.660	2.5	58493.210	2.5	206.8767	26.01	-3.50	25428.800	5.5	73751.340	4.5
206.6421	28.02	-.63	86646.200	2.0	135023.600	3.0	206.8781	14.02	-1.40	209531.400	2.0	257853.600	3.0
206.6441	25.02	-.16	94771.470	2.5	143148.400	1.5	206.8790	23.01	-.63	20622.990	3.0	68945.000	3.0
206.6468	24												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
206.9711	27.02	-4.12	77121.100	4.5	125421.600	4.5	207.2807	25.01	-2.26	30684.810	1.0	78913.170	2.0
206.9735	10.01	-4.24	280268.960	2.5	328568.890	1.5	207.2838	24.00	-4.90	7927.470	2.0	56155.120	2.0
206.9807	26.02	-1.94	87901.870	3.0	136200.130	3.0	207.2896	16.01	-4.40	115892.300	.5	164118.600	.5
206.9829	25.02	-4.38	94850.660	1.5	143148.400	1.5	207.2909	25.00	-3.11	0.000	2.5	48225.990	3.5
206.9881	30.02	-1.13	234384.000	3.0	282680.400	4.0	207.2929	25.01	-2.06	31514.350	4.0	79739.880	5.0
206.9898	9.02	-3.68	418248.560	1.5	466544.700	1.5	207.2942	24.01	-1.67	20512.750	5.5	68737.990	5.5
206.9916	27.00	-2.15	1809.330	1.5	50105.050	1.5	207.3038	24.02	-4.31	63420.300	3.0	111643.900	2.0
206.9917	29.01	-1.02	69867.810	2.0	118163.500	2.0	207.3068	10.01	-4.28	280473.580	1.5	328695.880	1.5
206.9940	28.01	-1.43	66579.710	1.5	114874.680	2.5	207.3068	10.01	-3.31	280473.580	1.5	328695.880	1.5
206.9955	26.01	-1.42	27620.390	2.5	75915.210	2.5	207.3071	23.01	-4.62	36.050	1.0	48256.280	0.0
206.9957	25.02	-1.59	84981.630	3.5	133276.400	4.5	207.3080	50.00	.56	0.000	0.0	48237.400	0.0
206.9978	14.02	-2.46	209559.330	3.0	257853.600	3.0	207.3133	26.01	-1.98	13904.870	.5	62125.660	1.5
206.9978	14.02	-1.46	209559.330	3.0	257853.600	4.0	207.3143	25.02	-.61	94906.450	.5	143127.000	.5
206.9978	14.02	-1.75	209559.330	3.0	257853.600	4.0	207.3154	20.02	-1.81	279741.800	2.0	327962.110	1.0
206.9999	10.02	-.91	391414.020	2.0	439707.610	1.0	207.3181	18.01	-1.61	161048.640	1.5	209268.310	1.5
207.0131	25.01	-3.49	32856.950	3.0	81147.650	2.0	207.3244	27.02	-.75	77472.300	2.5	125690.500	3.5
207.0204	11.02	-3.37	415173.200	1.5	463462.200	1.5	207.3247	24.01	-2.06	20519.850	4.5	68737.990	5.5
207.0212	25.01	-4.82	32858.840	2.0	81147.650	2.0	207.3255	25.01	-3.20	32836.400	1.0	81054.350	2.0
207.0231	24.00	-6.36	0.000	3.0	48288.370	4.0	207.3260	24.00	-7.56	0.000	3.0	48217.830	2.0
207.0305	18.01	-4.26	163299.470	2.5	211586.110	2.5	207.3278	26.02	-3.20	135239.740	4.0	183457.150	4.0
207.0307	29.01	-4.09	88926.090	0.0	137212.700	1.0	207.3282	27.00	-.67	0.000	4.5	48217.320	3.5
207.0308	26.00	-3.90	415.932	3.0	48702.518	4.0	207.3298	26.02	-3.86	135239.740	4.0	183456.990	3.0
207.0320	28.02	-3.69	71383.700	2.0	119670.020	2.0	207.3335	11.02	-.19	418556.900	.5	466773.000	1.5
207.0326	25.01	-1.85	31514.350	4.0	79800.520	4.0	207.3336	26.02	-3.19	87901.870	3.0	136117.940	2.0
207.0333	26.01	-1.27	27314.930	3.5	75600.930	3.5	207.3369	26.02	-3.09	134265.420	2.0	182480.720	2.0
207.0487	26.02	-4.66	139827.170	4.0	188109.580	3.0	207.3372	25.02	.72	97239.860	6.5	145455.100	7.5
207.0490	24.00	-3.72	7927.470	2.0	56209.810	3.0	207.3425	18.01	-1.07	147875.860	2.5	196089.870	2.5
207.0540	26.02	-.36	83429.610	6.0	131710.790	5.0	207.3431	25.01	-3.08	37847.900	2.0	86661.750	3.0
207.0587	26.02	-2.42	89907.850	4.0	138187.930	3.0	207.3446	28.02	-4.38	84604.800	1.0	132818.300	2.0
207.0589	26.02	-2.31	141399.040	2.0	189679.070	3.0	207.3488	26.02	-1.36	141466.530	3.0	189679.070	3.0
207.0639	2.01	-2.44	390142.340	0.0	438436.611	0.0	207.3502	27.02	-1.63	76791.100	1.5	125003.300	2.5
207.0670	76.01	2.69	3871.561	0.0	52165.108	0.0	207.3581	25.01	-1.83	43850.420	2.0	92060.800	1.0
207.0718	23.01	-4.77	2808.760	3.0	51085.770	3.0	207.3617	26.02	-4.18	136793.820	2.0	185003.350	2.0
207.0747	25.02	-.44	94850.660	1.5	143127.000	.5	207.3634	13.02	-1.96	165786.320	2.5	213995.480	2.5
207.0758	28.01	-2.48	76727.360	5.5	125003.440	5.5	207.3634	13.02	-.66	165786.320	2.5	213995.480	3.5
207.0769	26.02	-3.92	138103.120	4.0	186378.940	4.0	207.3684	13.02	-.81	165787.510	1.5	213995.480	2.5
207.0781	23.01	-1.45	20522.140	1.0	68797.700	2.0	207.3719	26.02	-2.02	83237.860	3.0	131445.030	2.0
207.0835	24.02	-1.67	69780.900	1.0	118055.200	1.0	207.3739	2.01	-2.34	390142.340	0.0	438364.416	0.0
207.0863	25.02	-.13	91906.100	2.5	140179.740	2.5	207.3756	26.02	-4.92	136797.050	3.0	185003.350	2.0
207.0926	26.01	-3.95	20830.520	2.5	69102.690	2.5	207.3830	26.02	-1.00	140750.980	2.0	188955.560	3.0
207.0938	26.02	-1.35	117950.320	4.0	166222.200	4.0	207.3836	28.01	-1.54	70358.940	4.5	118563.390	3.5
207.0976	26.02	-.92	89783.590	4.0	138054.590	5.0	207.3894	24.02	-2.44	109434.200	2.0	157637.300	3.0
207.0980	25.00	-3.58	0.000	2.5	48270.910	2.5	207.3907	24.02	-4.57	63172.200	2.0	111375.000	3.0
207.0980	20.02	-4.98	323003.560	1.0	371274.480	2.0	207.3936	12.02	-.23	536152.000	1.0	584354.100	2.0
207.1099	26.02	-2.09	90423.680	2.0	138691.810	1.0	207.3984	24.03	-2.65	110700.000	3.5	158901.000	2.5
207.1210	74.01	1.86	3145.643	0.0	51426.600	0.0	207.4004	18.01	-2.23	147875.860	2.5	196076.390	1.5
207.1221	28.01	-4.00	66571.340	2.5	114836.630	3.5	207.4013	26.02	-4.64	138103.120	4.0	186303.440	3.0
207.1298	30.02	-1.33	234576.000	4.0	282839.560	3.0	207.4057	25.02	-2.63	85107.090	4.5	133276.300	4.5
207.1320	8.01	-3.87	206877.900	2.5	255140.900	1.5	207.4126	24.02	-2.45	109237.400	1.0	157435.100	2.0
207.1338	23.01	-4.63	16340.970	3.0	64603.530	3.0	207.4137	28.01	-1.86	24788.200	1.5	72965.650	1.5
207.1354	26.02	-2.69	140693.360	3.0	188955.560	3.0	207.4139	25.01	-3.95	32856.950	3.0	81054.350	2.0
207.1359	28.01	-4.03	67694.640	2.5	115956.710	2.5	207.4167	26.00	-1.23	12560.933	3.0	60757.640	4.0
207.1407	25.01	-2.69	41204.340	5.0	89465.300	4.0	207.4189	26.01	-1.36	15844.710	4.5	64040.960	3.5
207.1411	10.01	-2.43	254165.010	1.5	302425.870	1.5	207.4196	24.01	-4.62	38315.000	2.5	86511.080	1.5
207.1425	24.01	-3.94	34659.480	.5	82920.030	1.5	207.4207	26.00	-1.07	11976.239	4.0	60172.060	4.5
207.1500	25.02	-1.99	91948.300	3.5	140207.090	2.5	207.4220	25.01	-3.10	32858.840	2.0	81054.350	2.0
207.1551	25.02	-4.09	88880.080	2.5	137137.690	1.5	207.4225	29.01	-3.14	72724.000	2.0	120919.410	1.0
207.1586	30.02	-1.51	236560.000	0.0	284816.800	1.0	207.4231	26.02	-1.13	89907.850	4.0	138103.120	4.0
207.1668	25.02	-2.04	85200.760	5.0	133455.640	5.5	207.4231	26.02	-.94	89907.850	5.0	138103.120	4.0
207.1710	14.02	-2.70	209599.700	4.0	257853.600	4.0	207.4244	22.00	-4.99	170.132	3.0	48365.090	3.0
207.1710	14.02	-2.84	209599.700	4.0	257853.600	4.0	207.4257	25.01	-3.16	32856.950	3.0	81051.620	3.0
207.1710	14.02	-1.18	209599.700	4.0	257853.600	5.0	207.4263	24.01	-2.72	34659.480	.5	82854.000	.5
207.1710	14.02	-4.27	209599.700	4.0	257853.600	4.0	207.4279	29.01	-1.40	88605.160	1.0	136799.300	2.0
207.1788	26.01	-2.20	18360.650	1.5	66612.740	1.5	207.4295	26.00	-5.56	12560.933	3.0	60754.710	4.0
207.1796	24.00	-6.34	0.000	3.0	48251.910	3.0	207.4298	12.02	-1.76	536152.000	1.0	584354.700	1.0
207.1806	26.01	-1.96	13474.430	2.5	61726.090	3.5	207.4311	8.01	-2.22	229946.600	2.5	278140.000	1.5
207.1808	25.01	-2.50	31661.720	3.0	79913.350	4.0	207.4311	8.01	-.99	229946.600	2.5	278140.000	2.5
207.1852	30.02	-1.92	208041.300	2.0	256291.900	1.0	207.4338	25.01	-2.89	32858.840	2.0	81051.620	3.0
207.1889	26.02	-1.00	86847.110	2.0	135096.840	3.0	207.4367	26.02	-3.43	73727.640	2.0	121919.740	3.0
207.1955	16.01	-4.73	115870.400	1.5	164118.600	.5	207.4389	27.02	-4.47	125003.300	2.5	173194.900	2.5
207.1980	23.01	-5.83	17910.980	4.0	66158.600	4.0	207.4389	27.02	-4.47	125003.300	2.5	173194.900	2.5
207.1990	24.01	-1.03	20512.620	2.5	68760.000	3.5	207.4389	27.02	-4.15	125003.300	2.5	173194.900	2.5
207.1992	7.01	-3.09	166582.450	2.0	214829.790	1.0	207.4391	26.02	-3.34	135239.740	4.0	183431.280	5.0
207.2007	27.02	-.60	76518.900	5.5	124765.900	5.5	207.4414	26.02	-4.49	138187.930	3.0	186378.940	4.0
207.2019	30.02	-2.24	237506.800	1.0	285753.500	2.0	207.4484	25.01	-2.55	43850.420	2.0	92039.600	2.0
207.2059	26.00	-1.75	12560.933	3.0	60806.720	3.0	207.4540	8.02	-3.17	366486.910	1.0	414675.000	2.0
207.2080	9.02	-3.42	395385.660	2.5	443630.960	3.5	207.4596	28.01	-1.39	68281.620	.5	116466.000	1.5
207.2081	23.01	-3.90	16340.970	3.0	64586.230	2.0	207.4604	24.02					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
207.5291	23.01	-5.16	2604.820	1.0	50775.470	2.0	207.8707	28.02	-2.99	133390.800	3.0	181482.300	4.0
207.5474	23.02	-1.99	99440.100	2.5	147606.500	3.5	207.8740	26.02	-1.40	86647.110	2.0	134937.840	2.0
207.5558	2.01	-2.30	390142.340	0.0	438322.155	0.0	207.8767	28.01	-2.33	9330.040	3.5	57420.160	2.5
207.5560	8.01	-3.99	206730.800	.5	254895.200	1.5	207.8784	18.01	-2.24	160239.350	1.5	208329.080	.5
207.5561	26.01	-3.90	25805.320	4.5	73969.710	5.5	207.8826	26.02	-.99	87901.870	3.0	135990.620	4.0
207.5590	74.01	1.91	8630.355	0.0	56809.427	0.0	207.8838	23.01	-4.65	2687.010	2.0	50775.470	2.0
207.5595	23.03	-1.15	217108.000	2.0	265271.600	3.0	207.8850	24.01	-2.87	42898.120	2.5	90986.310	3.5
207.5646	23.03	-1.05	216905.000	1.0	265067.400	2.0	207.8867	24.02	-1.66	110154.000	4.0	158241.800	5.0
207.5678	26.01	-1.94	18360.650	1.5	66522.320	2.5	207.8884	27.01	-2.67	13261.100	2.0	61348.500	1.0
207.5750	24.02	-2.75	111643.300	4.0	159803.300	4.0	207.8902	18.01	-2.54	163506.450	3.5	211593.440	4.5
207.5785	20.02	-3.17	325467.670	2.0	373626.850	2.0	207.8909	20.02	.02	277380.860	2.0	325467.670	2.0
207.5828	23.02	-4.82	98825.190	3.5	146983.380	2.5	207.8938	26.02	-.94	83358.880	2.0	131445.030	2.0
207.5832	15.00	-3.57	11376.400	2.5	59534.500	2.5	207.8957	23.01	-.85	17910.980	4.0	65996.700	3.0
207.5835	28.01	-1.58	68154.310	1.5	116312.340	1.5	207.8975	30.02	-.71	237506.800	1.0	285592.100	2.0
207.5845	26.02	-4.57	136793.820	2.0	184951.620	3.0	207.8992	26.02	.32	40999.870	2.0	89984.790	3.0
207.5855	24.01	-4.63	29952.080	.5	78109.640	1.5	207.9018	26.02	-3.08	134360.400	4.0	182444.700	3.0
207.5866	24.02	-2.80	109145.900	0.0	157303.200	1.0	207.9018	27.02	-1.86	83799.600	2.5	131883.900	2.5
207.5875	20.02	-3.04	133325.200	4.0	181482.300	4.0	207.9022	11.02	-3.54	415173.200	1.5	463257.400	2.5
207.5877	18.01	-3.95	163506.450	3.5	211663.500	3.5	207.9040	30.02	-.92	234866.900	1.0	282950.700	2.0
207.5920	20.02	-.59	391429.940	3.0	439586.000	2.0	207.9110	74.01	2.46	6049.314	0.0	54146.817	0.0
207.5948	23.03	-3.16	215957.700	3.0	264113.100	4.0	207.9167	26.02	-4.41	138187.930	3.0	186268.790	2.0
207.6026	28.01	-3.02	53601.190	1.5	101754.800	2.5	207.9170	30.02	-.78	237642.700	3.0	285723.500	3.0
207.6062	28.00	-2.17	879.813	2.0	49032.589	2.0	207.9178	24.01	-4.17	21822.860	2.5	69903.460	3.5
207.6111	25.02	-4.04	86486.770	1.5	134638.390	1.5	207.9203	29.01	-2.48	88362.030	2.0	136442.050	3.0
207.6151	27.01	-4.27	0.000	4.0	48150.700	3.0	207.9219	18.01	-4.79	163506.450	3.5	211586.110	2.5
207.6182	18.01	-1.25	161048.640	1.5	209198.630	2.5	207.9282	25.02	-2.66	84981.630	3.5	133059.840	3.5
207.6193	28.01	-2.84	24835.930	.5	72985.650	1.5	207.9300	26.02	-.90	93388.750	4.0	141466.530	3.0
207.6216	25.01	-.12	38720.200	6.0	86869.390	6.0	207.9305	24.01	-6.03	19798.010	2.5	67875.680	3.5
207.6232	26.00	-5.99	7376.762	4.0	55525.580	5.0	207.9309	23.02	-1.46	98062.220	1.5	146139.800	2.5
207.6322	26.02	-.14	89907.850	4.0	138054.590	5.0	207.9325	27.00	-2.14	1406.840	2.5	49484.050	3.5
207.6322	26.02	-.82	89907.850	5.0	138054.590	5.0	207.9334	23.03	-1.05	96196.100	1.0	144273.100	2.0
207.6342	10.01	-4.33	280700.770	3.5	328847.050	4.5	207.9393	25.02	-.37	85200.760	5.5	133276.400	4.5
207.6430	44.00	1.12	0.000	0.0	48159.582	0.0	207.9460	26.02	-3.77	93392.450	3.0	141466.530	3.0
207.6462	26.02	-3.38	134265.420	2.0	182408.910	3.0	207.9520	22.02	-2.59	81023.600	2.0	129096.300	3.0
207.6494	10.01	-2.67	254165.010	1.5	302307.750	2.5	207.9529	24.01	-3.16	19798.010	2.5	67870.500	1.5
207.6511	23.01	-2.12	20617.050	2.0	68759.400	1.0	207.9572	19.02	-.24	241443.500	2.5	289515.000	1.5
207.6560	25.01	-1.86	37847.900	2.0	85989.120	2.0	207.9601	24.01	-2.65	20512.620	2.5	68583.440	2.5
207.6581	26.02	-4.53	135316.420	5.0	183457.150	4.0	207.9624	27.02	-1.57	78927.800	3.5	126998.100	4.5
207.6664	25.01	-2.54	31661.720	3.0	79800.520	4.0	207.9627	26.01	-6.46	13904.870	.5	61975.110	1.5
207.6700	25.01	-2.81	37851.150	3.0	85989.120	2.0	207.9635	24.01	-2.72	19798.010	2.5	67868.050	2.5
207.6755	23.03	-3.71	218463.600	5.0	266600.300	5.0	207.9652	18.01	-1.08	147227.970	.5	195297.610	1.5
207.6828	23.02	-2.53	97512.000	1.5	145647.000	1.5	207.9667	26.00	-5.25	7376.762	4.0	55446.060	4.0
207.6871	23.01	-5.43	2604.820	1.0	50738.820	1.0	207.9683	25.01	-2.23	34761.810	5.0	82830.750	4.0
207.6885	10.01	-4.49	254292.190	.5	302425.870	1.5	207.9737	28.01	-5.00	79923.880	4.5	127991.560	3.5
207.6907	26.02	-2.16	88663.870	4.0	136797.050	3.0	207.9741	27.02	-.45	77622.900	4.5	125690.500	3.5
207.6917	25.01	-3.34	39808.140	3.0	87941.080	4.0	207.9741	24.02	-2.21	109569.700	2.0	157637.300	3.0
207.6937	28.01	-1.82	67694.640	2.5	115827.120	3.5	207.9762	7.02	-1.64	339744.400	2.5	387811.500	3.5
207.6944	25.01	-1.49	33147.390	5.0	81279.710	4.0	207.9787	25.01	-3.77	35004.430	3.0	83070.970	2.0
207.6949	24.02	-.16	66222.700	5.0	114354.900	4.0	207.9819	24.02	-2.74	109237.400	1.0	157303.200	1.0
207.6950	76.00	1.08	0.000	0.0	48147.524	0.0	207.9849	24.01	-3.74	20518.330	3.5	68583.440	2.5
207.6979	24.02	-.87	70791.800	2.0	118423.300	2.0	207.9875	24.01	-1.09	32355.940	3.5	80420.430	2.5
207.6986	24.01	-5.59	21822.860	2.5	69954.200	2.5	207.9884	2.01	-2.19	390142.340	0.0	438221.944	0.0
207.7020	25.01	-7.26	27589.030	2.0	75719.590	1.0	207.9888	30.02	-.02	234576.000	4.0	282640.200	5.0
207.7035	27.02	-1.84	125003.300	2.5	173133.500	1.5	207.9896	16.05	-2.64	552106.000	3.5	600170.000	3.5
207.7040	29.02	-1.82	80305.200	1.5	128435.300	1.5	207.9896	16.05	-1.09	552106.000	4.5	600170.000	3.5
207.7067	25.02	-2.24	89307.220	5.5	137436.700	4.5	207.9896	16.05	-1.20	552106.000	3.5	600170.000	2.5
207.7071	24.01	-6.36	21824.820	1.5	69954.200	2.5	207.9954	26.00	-4.72	7728.058	3.0	55790.720	3.0
207.7082	26.02	-1.78	86847.110	2.0	134976.220	3.0	207.9970	56.01	-1.89	21952.422	0.0	70030.039	0.0
207.7087	30.02	-1.14	236560.000	0.0	284689.000	1.0	207.9970	76.00	1.36	0.000	0.0	48077.617	0.0
207.7087	11.05	-.99	872577.000	1.0	920706.000	2.0	207.9986	18.01	-3.66	143107.600	2.5	191169.520	1.5
207.7135	29.02	-2.11	80551.500	2.5	128679.400	2.5	208.0041	29.01	-1.01	69867.810	2.0	117928.480	1.0
207.7168	26.02	-3.98	134265.420	2.0	182392.550	2.0	208.0058	28.01	-4.24	68131.210	3.5	116191.470	2.5
207.7208	29.02	-2.91	77967.600	2.5	126093.800	3.5	208.0074	24.00	-7.66	8095.210	3.0	56155.120	2.0
207.7346	27.02	-1.28	78927.800	3.5	127050.800	4.5	208.0078	26.00	-2.39	415.932	3.0	48475.740	3.0
207.7350	26.00	-2.35	0.000	4.0	48122.913	3.0	208.0143	26.02	-3.85	134360.400	4.0	182418.700	4.0
207.7369	25.02	.41	62988.920	3.5	111111.390	4.5	208.0146	23.02	-4.61	110181.470	2.5	158239.700	2.5
207.7469	27.00	-3.35	5075.830	1.5	53195.980	2.5	208.0176	23.01	-6.22	2504.820	1.0	50662.360	0.0
207.7511	26.01	-7.96	21308.080	1.5	69427.270	.5	208.0220	26.02	-.92	93412.930	2.0	141469.450	1.0
207.7575	11.02	-.12	416910.200	.5	465027.900	1.5	208.0234	24.02	-2.10	49626.800	2.0	97683.000	3.0
207.7586	25.02	-2.38	86520.940	2.5	134638.390	1.5	208.0240	26.01	-1.28	16369.390	3.5	64425.460	2.5
207.7593	10.01	-4.85	280700.770	3.5	328818.070	3.5	208.0317	24.00	-3.44	8307.570	4.0	56361.860	5.0
207.7594	2.01	-2.25	390142.340	0.0	438274.940	0.0	208.0347	26.02	-2.71	93412.930	2.0	141466.530	3.0
207.7662	11.02	-3.28	366165.300	2.5	414281.000	2.5	208.0355	9.02	-3.42	148248.560	1.5	466301.960	2.5
207.7692	9.02	-4.98	421005.360	.5	469120.350	1.5	208.0355	18.01	-.77	147227.970	.5	195281.380	.5
207.7698	26.02	-2.17	135316.420	5.0	183431.280	5.0	208.0360	27.01	-3.48	13404.600	1.0	61457.900	0.0
207.7704	24.01	-4.74	38396.360	.5	864511.080	1.5	208.0367	26.00	-5.01	7376.762	4.0	55429.890	5.0
207.7705	23.03	-.12	216905.000	1.0	265019.700	1.0	208.0405	26.02	-3.13	134360.400	4.0	182412.650	4.0
207.7709	24.00	-4.66	8095.210	3.0	56209.810	3.0	208.0424	23.01	-6.81	268			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
208.1793	26.02	-4.38	138691.810	1.0	186712.020	1.0	208.5017	26.00	-2.13	415.932	3.0	48361.920	4.0
208.1826	26.02	-3.35	134360.400	4.0	182379.860	5.0	208.5037	23.02	-1.27	105320.180	1.5	153265.700	5.5
208.1920	8.01	-4.31	206877.900	2.5	254895.200	1.5	208.5038	23.02	-2.18	99181.500	1.5	147127.000	2.5
208.1920	8.01	-3.54	206877.900	2.5	254895.200	2.5	208.5060	27.02	-3.10	83938.900	3.5	131883.900	2.5
208.2021	14.00	-2.28	6298.850	2.0	54313.818	1.0	208.5077	23.03	-.91	215957.700	3.0	263902.300	3.0
208.2042	28.01	-2.75	68131.210	3.5	116145.690	3.5	208.5107	27.01	-3.58	13404.600	1.0	61348.500	1.0
208.2045	24.00	-5.19	0.000	3.0	48014.400	4.0	208.5142	27.02	-1.77	78927.800	3.5	126870.900	2.5
208.2052	24.01	-4.28	33418.110	2.5	81432.360	3.5	208.5169	9.02	-3.17	418248.560	1.5	466191.030	2.5
208.2087	28.01	-4.24	68154.310	1.5	116167.760	1.5	208.5182	25.01	-2.69	33278.390	3.0	81220.580	3.0
208.2112	27.00	-1.64	816.000	3.5	48828.870	2.5	208.5211	25.02	-2.63	131287.180	5.5	179228.690	1.5
208.2128	29.02	-3.38	80422.800	5.5	128435.300	1.5	208.5258	29.01	-.65	68447.570	3.0	116388.000	2.0
208.2134	18.02	-3.00	204563.530	1.0	252575.880	1.0	208.5294	26.01	-4.94	38660.040	3.5	86599.660	2.5
208.2219	18.01	-2.08	160239.350	1.5	208249.740	1.5	208.5311	29.01	-1.74	21928.600	3.0	69867.810	2.0
208.2236	23.01	-5.42	18293.870	2.0	66303.880	3.0	208.5313	28.01	-4.42	67031.020	5.5	114970.190	5.5
208.2236	27.02	-1.40	77411.600	5.5	125421.600	4.5	208.5336	26.01	-3.11	21711.890	3.5	69650.540	2.5
208.2259	25.02	-1.71	85077.090	4.5	133086.570	4.5	208.5364	24.03	-1.60	110700.000	3.5	158638.000	4.5
208.2286	26.02	-2.70	141002.990	4.0	189011.840	4.0	208.5373	28.00	-2.85	879.813	2.0	48817.600	1.0
208.2296	25.02	-2.30	88880.080	2.5	136888.700	1.5	208.5414	2.01	-2.08	390142.340	0.0	438094.440	0.0
208.2302	14.01	-1.47	79355.280	2.5	127363.760	3.5	208.5454	25.02	-3.18	97023.800	3.5	144959.740	4.5
208.2302	14.01	-2.77	79355.280	2.5	127363.760	2.5	208.5454	25.00	-5.00	17052.290	4.5	64988.220	3.5
208.2372	28.01	-2.72	55018.710	2.5	103025.580	2.5	208.5529	20.02	-2.06	325467.670	2.0	373401.870	3.0
208.2384	26.02	-.87	93392.450	3.0	141399.040	2.0	208.5544	28.00	-2.86	3409.925	2.0	51343.800	2.0
208.2438	23.02	-.94	105282.650	2.5	153288.000	1.5	208.5590	75.00	-.80	0.000	0.0	47948.063	0.0
208.2473	2.01	-2.14	390142.340	0.0	438162.170	0.0	208.5637	26.02	-2.76	134549.000	3.0	182480.720	2.0
208.2540	76.00	1.02	4113.534	0.0	52131.819	0.0	208.5643	25.01	-4.07	35004.430	3.0	82936.010	3.0
208.2563	22.01	-4.86	4628.610	2.5	52631.070	3.5	208.5654	26.02	-3.06	134549.380	1.0	182480.720	2.0
208.2606	28.01	-1.44	51557.850	3.5	99559.330	2.5	208.5713	26.00	-1.32	0.000	4.0	47929.981	4.0
208.2613	25.01	-3.38	33278.390	3.0	81279.710	4.0	208.5740	77.00	-.98	7017.204	0.0	54961.818	0.0
208.2631	24.02	-2.82	109434.200	2.0	157435.100	2.0	208.5773	25.03	-3.48	119961.500	3.0	167890.100	2.0
208.2644	24.02	-2.77	111375.000	3.0	159375.600	3.0	208.5827	10.01	-4.40	280768.520	5.5	328695.880	1.5
208.2710	27.00	-2.70	5075.830	1.5	53074.920	1.5	208.5838	26.02	-1.03	97041.380	3.0	144968.500	4.0
208.2714	27.01	-4.02	13261.100	2.0	61260.100	2.0	208.5858	18.02	-2.38	204669.240	2.0	252575.880	1.0
208.2740	25.01	-1.71	31514.350	4.0	79512.730	3.0	208.5864	26.01	-1.91	30764.460	3.5	78690.980	2.5
208.2743	24.01	-3.18	38509.070	3.5	86507.380	2.5	208.5874	28.00	-3.92	2216.519	2.0	50142.800	3.0
208.2790	26.02	-1.44	97041.380	3.0	145038.610	3.0	208.5886	12.02	-2.06	431530.000	1.0	479456.000	1.0
208.2805	30.02	-2.36	237506.800	1.0	285503.700	1.0	208.5945	28.01	-2.32	76727.360	5.5	124652.000	4.5
208.2818	26.02	-3.64	70725.010	3.0	118721.600	2.0	208.5980	29.01	-2.85	68447.570	3.0	116371.410	4.0
208.2821	28.01	-.66	68735.980	2.5	116732.510	2.5	208.6000	32.00	-.66	483.945	0.0	48422.584	0.0
208.2839	25.02	-2.01	91948.300	3.5	139944.400	3.5	208.6047	25.02	-2.07	90440.500	4.5	138362.800	3.5
208.2869	28.00	-.95	1332.153	3.0	49327.560	3.0	208.6067	25.01	-1.95	44138.960	1.0	92060.800	1.0
208.2881	25.01	-4.17	44521.520	4.0	92516.650	4.0	208.6078	23.03	-.11	217350.000	3.0	265271.600	3.0
208.2916	29.01	-3.65	22846.970	2.0	70841.300	3.0	208.6132	26.02	-1.11	84519.550	4.0	132079.910	3.0
208.2919	26.01	-8.07	21308.080	1.5	69302.350	1.5	208.6134	25.01	-2.22	34910.430	4.0	82830.750	4.0
208.2940	25.01	-4.56	36274.290	2.0	84268.060	1.0	208.6230	26.02	-1.72	88694.670	5.0	136612.780	4.0
208.3008	26.02	-.26	70694.030	5.0	118686.250	4.0	208.6238	24.00	-6.76	0.000	3.0	47917.930	2.0
208.3016	28.01	-3.59	53365.170	4.5	101357.200	4.5	208.6276	26.01	-2.35	16369.390	3.5	64266.440	3.5
208.3017	24.03	-1.68	109950.000	2.5	157942.000	3.5	208.6299	25.02	-2.88	88880.080	2.5	136796.610	2.5
208.3053	25.01	-3.02	53597.130	2.0	101588.300	3.0	208.6317	25.02	-.79	84981.630	3.5	132897.740	2.5
208.3089	25.02	-3.45	84981.630	3.5	132971.990	3.5	208.6319	23.02	-1.04	98062.220	1.5	145976.270	2.5
208.3141	26.02	-1.01	117950.320	4.0	165939.470	5.0	208.6326	24.02	-2.38	109721.400	3.0	157637.300	3.0
208.3148	9.03	-.94	609811.000	3.0	657800.000	2.0	208.6437	25.01	-1.81	35004.430	3.0	82917.780	2.0
208.3220	77.00	1.02	5726.684	0.0	53729.295	0.0	208.6491	27.02	-4.19	91715.100	2.5	139627.200	1.5
208.3221	26.02	-1.76	84671.870	3.0	132659.170	4.0	208.6509	23.03	-.78	217108.000	2.0	265019.700	1.0
208.3273	26.02	-2.75	93412.930	2.0	141399.040	2.0	208.6522	28.01	-.45	67031.020	5.5	114942.420	1.5
208.3278	27.02	-2.09	77383.100	3.5	125369.100	2.5	208.6534	24.01	-3.47	33521.230	3.5	81432.360	3.5
208.3283	16.00	-3.96	22177.820	0.0	70163.700	1.0	208.6603	25.02	-1.66	19948.300	3.5	139857.840	4.5
208.3352	7.02	-.33	339744.000	2.5	387728.700	2.5	208.6606	25.01	-1.97	39808.140	3.0	87717.620	3.0
208.3419	25.02	-.55	85077.090	4.5	133059.840	3.5	208.6664	25.01	-1.50	37851.150	3.0	85759.300	4.0
208.3486	29.02	-2.32	147805.900	3.5	195787.100	3.5	208.6747	14.00	-5.07	6298.850	2.0	54205.090	2.0
208.3515	26.01	-2.80	27620.390	2.5	75600.930	3.5	208.6805	28.01	-3.93	67880.160	2.5	115785.060	1.5
208.3530	28.01	-1.48	68281.620	5.5	116261.810	5.5	208.6806	23.01	-3.53	20242.320	4.0	68147.200	4.0
208.3534	26.02	-.04	89783.590	4.0	137763.700	5.0	208.6812	18.01	-3.66	143107.600	2.5	191012.350	1.5
208.3551	27.01	-3.49	13261.100	2.0	61240.800	3.0	208.6834	25.01	-1.12	39813.380	2.0	87717.620	3.0
208.3616	22.00	-4.22	386.874	4.0	48365.090	3.0	208.6855	25.01	-2.39	36364.300	1.0	84268.060	1.0
208.3647	28.01	-2.16	8393.900	4.5	56371.410	3.5	208.6899	26.02	-2.07	135554.410	4.0	183457.150	4.0
208.3770	44.00	1.27	1129.205	0.0	49119.146	0.0	208.6919	26.02	-3.93	135554.410	4.0	183456.690	3.0
208.3771	28.01	-1.74	23796.180	1.5	71770.830	2.5	208.6921	24.00	-7.09	8307.570	4.0	56209.810	3.0
208.3776	24.00	-5.69	0.000	3.0	47974.530	3.0	208.6964	10.02	-.26	389058.240	1.0	436959.490	1.0
208.3819	23.02	-3.42	110181.470	2.5	158155.000	1.5	208.6982	25.01	-2.41	44138.960	1.0	92039.800	2.0
208.3875	25.01	-2.08	33248.320	4.0	81220.580	3.0	208.7078	10.01	-3.17	280797.260	2.5	328695.880	1.5
208.3886	24.00	-4.68	8307.570	4.0	56279.560	4.0	208.7079	10.01	-4.43	280797.260	2.5	328695.880	1.5
208.3920	75.00	-.37	0.000	0.0	47986.487	0.0	208.7138	26.02	-.15	76956.790	3.0	124854.040	3.0
208.4064	27.02	-3.98	125227.000	3.5	173194.900	2.5	208.7158	27.02	-2.58	77472.300	2.5	125369.100	2.5
208.4067	23.02	-1.50	105320.180	1.5	153288.000	1.5	208.7206	26.02	-3.60	134549.000	3.0	182444.700	3.0
208.4116	23.01	-6.23	2808.760	3.0	50775.470	2.0	208.7241	25.02	-2.80	85077.090	4.5	132971.990	3.5
208.4122	26.00	-.30	0.000	4.0	47966.571	3.0	208.7247	26.01	-5.42	21711.890	3.5	69606.640	3.5
208.4218	24.01	-2.99	20512.750	5.5	68477.110	4.5	208.7350	27.02	-1.68	79425.300	2.5	127317.700	3.5
208.4220	27.02	-1.03	78927.800	3.5	126892.100	3.5	208.7357	10.01	-4.23	254165.			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
208.7921	23.01	-1.31	17910.980	4.0	65790.280	4.0	209.0690	14.02	-2.16	209599.700	4.0	257415.600	3.0
208.7923	26.01	-2.97	31364.470	1.5	79243.730	1.5	209.0725	24.02	-1.57	49491.000	1.0	97306.100	2.0
208.7952	29.01	.12	68447.570	3.0	116326.160	3.0	209.0738	24.01	-3.27	33418.110	2.5	81232.910	2.5
208.7995	17.01	-2.36	110299.500	2.0	158177.100	1.0	209.0750	24.01	-5.52	21824.250	.5	69638.770	1.5
208.8027	26.02	-2.17	135554.410	4.0	183431.280	5.0	209.0755	24.00	-4.99	0.000	3.0	47814.400	3.0
208.8096	26.01	-3.77	31368.450	.5	79243.730	1.5	209.0775	24.01	-6.41	21824.820	1.5	69638.770	1.5
208.8104	17.01	-2.17	110302.000	1.0	158177.100	1.0	209.0807	24.01	-3.56	33619.130	4.5	81432.360	3.5
208.8170	17.01	-2.47	110303.500	0.0	158177.100	1.0	209.0854	26.00	-3.82	704.003	2.0	48516.150	1.0
208.8196	9.03	-1.28	452517.100	3.0	500390.100	2.0	209.0856	26.00	-2.99	0.000	4.0	47812.104	4.0
208.8196	7.02	-1.63	339855.700	3.5	387728.700	2.5	209.0902	26.01	-4.49	60837.590	6.5	108648.640	6.5
208.8210	28.01	-1.06	68965.650	1.5	116838.330	1.5	209.1053	23.01	-3.70	16421.510	4.0	64229.100	5.0
208.8210	18.02	-4.53	156924.680	2.0	204797.370	3.0	209.1070	27.01	-3.04	0.000	4.0	47807.200	4.0
208.8231	25.02	-3.05	90440.500	4.5	138312.700	4.5	209.1135	6.01	-1.73	166967.130	.5	214772.040	1.5
208.8234	25.01	-2.85	41190.470	6.0	89062.600	5.0	209.1169	26.00	-6.14	7985.783	2.0	55790.720	3.0
208.8340	26.02	-2.91	134549.000	3.0	182418.700	4.0	209.1179	23.01	-4.71	18353.890	3.0	66158.600	4.0
208.8359	25.01	-2.89	33278.390	3.0	81147.650	2.0	209.1184	25.02	-7.70	90440.500	4.5	138245.090	5.5
208.8370	24.02	-3.81	109434.200	2.0	157303.200	1.0	209.1187	6.01	-1.34	166990.730	1.5	214795.270	2.5
208.8373	23.01	-4.72	2604.820	1.0	50473.760	1.0	209.1218	26.00	-1.39	12560.933	3.0	60364.760	3.0
208.8457	23.01	-2.38	20280.190	5.0	68147.200	4.0	209.1223	26.02	-2.26	87901.870	3.0	135705.570	3.0
208.8480	24.00	-4.35	0.000	3.0	47866.480	4.0	209.1241	25.01	-1.88	33248.320	4.0	81051.620	3.0
208.8519	23.01	-2.46	16421.510	4.0	64287.100	5.0	209.1280	28.01	-1.61	68154.310	1.5	115950.710	2.5
208.8527	24.02	-2.58	109569.700	2.0	157435.100	2.0	209.1301	23.02	-1.46	99804.570	2.5	147606.500	3.5
208.8558	23.03	-1.10	215957.700	3.0	263822.400	4.0	209.1303	23.02	-1.97	99181.500	1.5	146963.380	2.5
208.8562	27.02	-1.56	77411.600	5.5	125276.200	6.5	209.1312	7.01	-1.73	166582.450	2.0	214364.130	2.0
208.8567	27.02	-2.67	55729.200	3.5	103593.700	2.5	209.1320	26.02	-1.10	77102.430	2.0	124903.920	2.0
208.8604	26.02	-3.64	134549.000	3.0	182412.650	4.0	209.1369	10.01	-4.74	280768.520	.5	328568.860	.5
208.8623	26.02	-4.95	70694.030	5.0	118557.200	5.0	209.1405	27.00	-3.14	816.000	3.5	48615.560	2.5
208.8657	7.01	-2.93	166521.690	1.0	214384.130	2.0	209.1406	26.01	-1.95	26170.190	5.5	73969.710	5.5
208.8720	23.03	-1.00	96412.100	2.0	144273.100	2.0	209.1412	27.02	-2.61	125003.300	2.5	172802.700	2.5
208.8767	26.02	-1.95	134549.000	3.0	182408.910	3.0	209.1419	25.02	-3.24	86486.770	1.5	134280.000	.5
208.8774	25.02	-2.27	90746.060	5.5	138605.800	6.5	209.1442	27.02	-4.22	77622.900	4.5	125421.600	4.5
208.8776	2.01	-2.02	390142.340	0.0	438017.268	0.0	209.1464	26.01	-7.19	25805.320	4.5	73603.530	5.5
208.8820	77.00	1.20	0.000	0.0	47873.919	0.0	209.1465	18.01	-4.27	143371.350	1.5	191169.520	1.5
208.8829	24.00	-3.46	7593.160	2.0	55451.640	3.0	209.1471	26.02	-1.97	83646.980	1.0	131445.030	1.0
208.8833	26.01	-2.96	13474.430	2.5	61332.620	1.5	209.1525	26.02	-4.67	132079.910	3.0	179876.710	4.0
208.8839	25.01	-3.72	41204.340	5.0	89062.600	5.0	209.1528	26.01	-2.66	26170.190	5.5	73966.940	6.5
208.8885	28.02	-2.84	85834.800	5.0	133692.000	5.0	209.1531	25.01	-1.88	31661.720	3.0	79458.380	2.0
208.8926	14.02	-3.23	209559.330	3.0	257415.600	3.0	209.1580	50.00	.75	1613.150	0.0	49423.896	0.0
208.8926	14.02	-2.33	209559.330	3.0	257415.600	2.0	209.1621	26.01	-8.61	21308.080	1.5	69102.690	2.5
208.8932	10.02	-1.00	389058.240	1.0	436914.390	2.0	209.1622	18.01	-9.97	147503.020	1.5	195297.610	1.5
208.8944	26.02	-1.61	89907.850	4.0	137763.700	5.0	209.1640	18.01	-2.23	142717.020	3.5	190511.190	2.5
208.8944	26.02	-3.61	89907.850	5.0	137763.700	5.0	209.1645	6.01	-1.08	167035.710	2.5	214829.770	3.5
208.8949	26.01	-4.53	31387.980	2.5	79243.730	1.5	209.1653	25.02	-3.87	97023.800	3.5	144817.680	3.5
208.8960	28.00	-1.36	879.813	2.0	48735.308	2.0	209.1687	24.01	-2.60	20512.620	2.5	68305.730	1.5
208.8960	27.01	-3.29	13404.600	1.0	61260.100	2.0	209.1689	26.02	-4.41	151534.900	2.0	199327.950	1.0
208.8968	24.02	-3.00	49827.700	3.0	97683.000	3.0	209.1701	6.01	-1.73	166967.130	.5	214759.910	.5
208.8990	25.03	-2.13	119445.500	2.0	167300.300	3.0	209.1707	26.01	-4.47	60837.590	6.5	108630.240	5.5
208.9002	28.01	-1.32	52738.450	2.5	100592.980	3.5	209.1713	20.02	-3.45	323655.060	2.0	371447.580	1.0
208.9030	76.00	.66	0.000	0.0	47869.107	0.0	209.1730	10.01	-3.33	281025.940	2.5	328618.070	3.5
208.9036	30.02	-1.82	237047.800	2.0	284901.500	2.0	209.1731	10.01	-4.14	281025.940	2.5	328618.050	2.5
208.9069	28.00	-6.63	1332.153	3.0	49185.146	2.0	209.1732	28.00	-2.16	879.813	2.0	48671.900	3.0
208.9093	26.02	-6.63	77102.430	2.0	124954.880	1.0	209.1767	26.02	-3.51	151536.680	1.0	199327.950	1.0
208.9132	24.01	-1.95	19528.380	.5	67379.920	1.5	209.1805	11.02	-3.12	415173.200	1.5	462963.600	1.5
208.9134	24.01	-2.31	20024.180	3.5	67875.680	3.5	209.1821	26.02	-3.49	151537.910	0.0	199327.950	1.0
208.9140	74.01	1.74	4678.136	0.0	52544.722	0.0	209.1829	23.01	-2.52	16340.970	3.0	64130.840	4.0
208.9156	25.01	-1.86	31661.720	3.0	79512.730	3.0	209.1840	9.02	-3.23	418248.560	1.5	466038.170	2.5
208.9163	13.02	-1.21	143633.380	.5	191484.230	.5	209.1959	12.02	-1.03	426868.010	1.0	474655.000	2.0
208.9210	76.00	.89	2661.698	0.0	50526.680	0.0	209.1965	23.01	-5.50	2687.010	2.0	50473.760	1.0
208.9327	26.02	-2.72	89697.520	3.0	137544.600	2.0	209.1994	24.00	-5.96	0.000	3.0	47786.100	2.0
208.9417	10.02	-1.42	389069.370	2.0	436914.390	2.0	209.2042	30.02	-7.71	234384.000	3.0	282169.000	2.0
208.9443	12.00	-6.01	0.000	0.0	47844.414	1.0	209.2046	30.02	-9.90	234866.900	1.0	282651.800	1.0
208.9466	27.02	-1.12	77383.100	3.5	125227.000	3.5	209.2113	28.01	-4.38	78955.450	1.5	126736.820	1.5
208.9467	24.01	-3.03	20024.180	3.5	67868.050	2.5	209.2130	10.01	-3.59	254165.010	1.5	301948.000	1.5
208.9481	26.02	-3.83	134549.000	3.0	182392.550	2.0	209.2143	28.01	-1.01	51557.850	3.5	99340.550	3.5
208.9484	25.01	-3.57	34761.810	5.0	82605.290	4.0	209.2151	25.01	-2.80	53805.800	4.0	101588.300	3.0
208.9511	22.01	-4.28	4628.610	2.5	52471.480	2.5	209.2154	25.00	-2.44	0.000	2.5	47782.430	1.5
208.9520	42.01	1.52	15082.956	0.0	62940.837	0.0	209.2168	6.01	-1.62	166990.730	1.5	214772.640	1.5
208.9597	25.01	-1.35	55759.270	3.0	103600.170	2.0	209.2173	29.02	-4.59	148662.900	2.5	196444.900	1.5
208.9629	25.01	-2.06	36427.890	0.0	84268.060	1.0	209.2173	27.02	-1.25	83799.600	2.5	131581.600	3.5
208.9657	23.02	-2.47	98383.530	2.5	146223.050	3.5	209.2217	28.02	-2.93	82172.900	3.0	129953.900	3.0
208.9662	9.02	-4.49	443753.060	2.5	491592.470	2.5	209.2237	26.01	-1.23	44915.070	3.5	92695.620	2.5
208.9702	26.01	-5.08	21812.040	1.5	69650.540	2.5	209.2291	28.01	-4.53	74300.930	1.5	122080.250	2.5
208.9716	26.00	-3.43	12968.552	2.0	60806.720	3.0	209.2327	23.01	-1.81	20980.920	2.0	68759.400	1.0
208.9875	26.00	-1.32	0.000	4.0	47834.529	5.0	209.2333	18.01	-1.48	147503.020	1.5	195281.380	.5
208.9887	26.00	-5.07	0.000	4.0	47834.260	3.0	209.2356	9.02	-4.70	443630.960	3.5	491408.790	3.5
208.9947	27.01	-4.59	17771.500	3.0	65604.400	3.0	209.2392	29.02	-3.24	77967.600	2.5	125744.600	1.5
209.0055	25.02	-1.05	62568.080	1.5	110398.500	2.5	209.2438	25.01	-1.82	33278.390	3.0	81054.350	2.0
209.0056	26.02	-1.18	89697.520	3.0	137527.920	4.0	209.2465	10.02	-4.49	389139.050	3.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
209.2936	9.02	-4.83	443630.960	3.5	491395.560	4.5
209.2944	27.02	-3.00	125369.100	2.5	173133.500	1.5
209.2951	26.02	-1.06	90423.680	2.0	138187.930	3.0
209.2952	8.01	-2.27	211521.980	1.5	259286.200	2.5
209.2985	26.02	-3.19	151536.680	1.0	199300.150	2.0
209.2988	24.02	-1.90	70291.800	2.0	118055.200	1.0
209.2998	25.02	-1.54	85173.880	1.5	132937.060	1.5
209.3063	30.02	-1.75	234866.900	1.0	282628.600	2.0
209.3068	24.01	-5.21	29952.080	.5	77713.660	1.5
209.3094	26.01	-3.47	60887.660	5.5	108648.640	6.5
209.3110	42.01	1.76	15324.929	0.0	63100.727	0.0
209.3137	24.03	-2.78	127218.000	3.5	174978.000	2.5
209.3142	23.02	-2.43	98062.220	1.5	145822.110	1.5
209.3157	6.01	-1.71	167035.710	2.5	214795.270	2.5
209.3301	23.02	-2.38	98383.530	2.5	146139.800	2.5
209.3305	26.01	-3.75	38660.040	3.5	86416.220	3.5
209.3312	24.01	-2.02	19631.280	1.5	67387.300	2.5
209.3356	27.01	-5.13	13593.500	0.0	61348.500	1.0
209.3369	27.02	-2.56	77472.300	2.5	125227.000	3.5
209.3396	23.01	-1.16	16533.000	5.0	64287.100	5.0
209.3400	24.02	-2.52	110154.000	4.0	157908.000	4.0
209.3401	25.00	-2.35	0.000	2.5	47753.990	2.5
209.3466	28.01	-1.79	52738.450	2.5	100490.950	1.5
209.3497	25.01	-2.64	31760.930	2.0	79512.730	3.0
209.3505	26.02	-1.96	77102.430	2.0	124854.040	3.0
209.3506	26.02	-2.69	135705.570	3.0	183457.150	4.0
209.3526	26.02	-3.09	135705.570	3.0	183456.690	3.0
209.3553	28.01	-1.41	9330.040	3.5	57080.550	3.5
209.3619	29.01	-1.37	67916.390	1.0	115665.400	1.0
209.3620	26.01	-1.80	30388.550	4.5	78137.530	3.5
209.3628	10.01	-4.09	280947.100	1.5	328695.900	2.5
209.3629	10.01	-4.62	280947.100	1.5	328695.880	1.5
209.3635	24.01	-2.23	19631.280	1.5	67379.920	1.5
209.3650	28.02	-3.54	63472.600	2.0	111220.900	3.0
209.3685	26.00	-1.23	415.932	3.0	48163.427	2.0
209.3694	29.02	-4.25	147805.900	3.5	195553.200	2.5
209.3824	26.02	-3.68	89783.590	4.0	137527.920	4.0
209.3831	25.02	-1.75	89052.440	3.5	136796.610	2.5
209.3916	26.01	-2.43	36126.410	1.5	83868.650	2.5
209.3931	26.02	-4.60	137209.730	4.0	184951.620	3.0
209.3983	26.01	-4.56	38858.960	2.5	86599.660	2.5
209.4018	28.02	-3.77	82172.900	3.0	129912.800	2.0
209.4055	28.01	-3.08	68131.210	3.5	115870.280	2.5
209.4129	28.01	-1.59	52738.450	2.5	100475.820	3.5
209.4140	6.01	-2.65	167035.710	2.5	214772.840	1.5
209.4163	25.02	.58	97271.760	5.5	145008.360	6.5
209.4185	14.00	-3.39	15394.370	0.0	63130.490	1.0
209.4190	7.01	-1.71	166521.690	1.0	214257.690	1.0
209.4221	12.02	-1.83	431530.000	1.0	479265.300	0.0
209.4230	32.00	1.40	1371.178	0.0	49121.425	0.0
209.4233	26.02	-1.07	84369.920	2.0	132104.940	2.0
209.4234	9.03	-1.09	609811.000	3.0	657546.000	3.0
209.4255	27.01	-3.09	4950.000	2.0	52684.500	1.0
209.4287	13.01	-1.66	95546.800	3.0	143280.600	4.0
209.4295	26.02	-3.64	131445.030	2.0	179178.620	3.0
209.4299	24.02	-3.57	109569.700	2.0	157303.200	1.0
209.4301	22.01	-5.00	4897.600	3.5	52631.070	3.5
209.4326	26.02	-4.10	114351.920	3.0	162084.800	2.0
209.4347	28.01	-1.49	68735.980	2.5	116468.400	1.5
209.4352	24.02	-1.30	111643.300	4.0	159375.600	3.0
209.4382	18.02	-3.16	156917.620	3.0	204649.240	2.0
209.4386	28.01	-1.86	53634.620	1.5	101366.140	2.5
209.4415	25.01	-4.56	35004.430	3.0	82735.290	2.0
209.4486	23.02	-1.78	99440.100	2.5	147169.340	3.5
209.4527	26.02	-3.39	151534.130	3.0	199262.440	3.0
209.4561	26.02	-2.97	151534.900	2.0	199262.440	3.0
209.4577	9.02	-4.35	443865.310	1.5	491592.470	1.5
209.4577	9.02	-4.42	443865.310	1.5	491592.470	2.5
209.4629	26.01	-2.07	18886.750	.5	66612.740	1.5
209.4651	26.02	-4.62	89697.520	3.0	137423.000	3.0
209.4672	24.02	-2.00	109943.900	5.0	157668.900	6.0
209.4688	26.02	-4.97	151537.800	4.0	199262.440	3.0
209.4691	18.02	-4.63	156924.680	2.0	204649.240	2.0
209.4697	23.02	-1.84	98825.190	3.5	146549.620	4.5
209.4722	25.02	-3.83	85173.880	1.5	132897.740	2.5
209.4750	74.01	1.95	1451.835	0.0	49190.229	0.0
209.4760	13.01	-2.09	95546.800	3.0	143269.600	3.0
209.4773	25.02	-1.04	62988.920	3.5	110711.620	3.5
209.4776	29.01	-1.24	67916.390	1.0	115639.020	2.0
209.4808	13.01	-1.18	95547.900	2.0	143269.600	3.0
209.4811	26.02	-3.79	135735.310	5.0	183457.150	4.0
209.4879	27.00	-2.97	5075.830	1.5	52796.130	2.5
209.4932	24.00	-1.76	0.000	3.0	47719.080	4.0
209.4975	26.01	-1.35	16369.390	3.5	64087.500	2.5
209.4980	26.00	-5.28	7728.058	3.0	55446.060	4.0
209.4984	26.02	-1.53	70725.010	3.0	118442.920	3.0
209.4993	26.01	-2.55	18360.650	1.5	66078.340	2.5
209.5006	23.03	-1.93	217350.000	3.0	265067.400	2.0
209.5017	18.01	-2.39	161048.640	1.5	208765.770	.5
209.5049	23.01	-1.37	16340.970	3.0	64057.390	3.0
209.5069	28.01	-2.30	68154.310	1.5	115870.280	2.5
209.5071	13.01	-3.26	95546.800	3.0	143262.700	2.0
209.5081	25.02	-1.41	62456.990	.5	110172.690	1.5
209.5117	28.00	-1.22	3409.925	2.0	51124.800	3.0
209.5120	13.01	-1.72	95547.900	2.0	143262.700	2.0
209.5133	23.01	-3.68	14461.730	3.0	62176.240	4.0
209.5148	26.02	-1.48	70728.750	4.0	118442.920	3.0
209.5159	13.01	-1.99	95548.800	1.0	143262.700	2.0
209.5168	24.02	-3.39	109721.400	3.0	157435.100	2.0
209.5182	26.01	-3.18	22810.330	3.5	70523.730	3.5
209.5193	24.01	-2.71	19631.280	1.5	67344.420	2.5
209.5239	28.01	-3.68	67880.160	2.5	115592.250	1.5
209.5257	24.01	-4.57	33521.230	3.5	81232.910	2.5
209.5331	26.02	-1.31	84369.920	2.0	132079.910	3.0
209.5357	18.02	-3.08	204563.530	1.0	252272.920	1.0
209.5360	23.01	-1.32	16421.510	4.0	64130.840	4.0
209.5393	24.00	-1.87	0.000	3.0	47708.590	3.0
209.5414	25.01	-4.23	35004.430	3.0	82712.550	3.0
209.5464	26.00	-1.25	415.932	3.0	48122.913	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
209.5475	23.02	-3.12	44345.820	3.5	92052.550	4.5
209.5490	10.01	-4.10	280989.530	1.5	328695.900	2.5
209.5491	10.01	-2.90	280989.530	1.5	328695.880	1.5
209.5525	10.02	-1.27	389139.050	3.0	436844.630	3.0
209.5529	7.01	-1.92	166678.640	3.0	214384.130	2.0
209.5580	26.02	-1.23	90483.590	3.0	138187.930	3.0
209.5639	14.00	-3.60	15394.370	0.0	63097.360	1.0
209.5646	23.01	-3.90	18293.870	2.0	65996.790	3.0
209.5671	26.02	-2.22	86847.110	2.0	134549.380	1.0
209.5686	18.01	-3.86	159393.310	1.5	207095.230	2.5
209.5687	26.02	-1.89	86847.110	2.0	134549.000	3.0
209.5691	27.00	-5.98	3482.820	4.5	51184.630	3.5
209.5751	28.00	-1.13	1332.153	3.0	49032.589	2.0
209.5770	25.02	-2.28	86051.500	2.5	133751.500	3.5
209.5804	25.02	-1.04	90936.220	1.5	138635.460	2.5
209.5853	28.01	-1.32	75149.480	4.5	122847.600	3.5
209.5882	25.01	-2.94	31760.930	2.0	79456.380	2.0
209.5883	24.00	-2.01	0.000	3.0	47697.440	2.0
209.5942	23.01	-2.39	16533.000	5.0	64229.100	5.0
209.5947	26.02	-2.11	135735.310	5.0	183431.280	5.0
209.5950	28.01	-4.24	68131.210	3.5	115827.120	3.5
209.5996	25.01	-2.75	34910.430	4.0	82605.290	4.0
209.6032	20.02	-3.57	326186.320	3.0	373880.370	3.0
209.6065	26.00	-4.77	0.000	4.0	47693.289	3.0
209.6130	26.02	-4.82	135739.470	6.0	183431.280	5.0
209.6172	29.01	-1.20	70841.300	3.0	118532.150	2.0
209.6179	10.01	-4.69	254165.010	1.5	301855.710	2.5
209.6180	72.01	1.19	15002.299	0.0	62708.126	0.0
209.6195	28.00	-3.85	1713.080	1.0	49403.420	1.0
209.6198	7.01	-1.51	166521.690	1.0	214211.960	0.0
209.6203	18.02	-2.52	204563.530	1.0	252253.690	2.0
209.6267	28.02	-1.26	86646.200	2.0	134334.900	3.0
209.6275	24.00	-8.77	0.000	3.0	47688.510	4.0
209.6299	25.02	-4.88	97271.760	5.5	144959.740	4.5
209.6303	26.01	-3.28	44915.070	3.5	92602.940	3.5
209.6304	28.01	-2.25	75149.480	4.5	122837.330	4.5
209.6309	27.01	-2.88	22009.230	4.0	69696.970	3.0
209.6346	23.02	-4.34	99440.100	2.5	147127.000	2.5
209.6390	50.00	.53	8549.697	0.0	56250.745	0.0
209.6402	23.01	-3.51	16340.970	3.0	64026.600	4.0
209.6426	26.02	-1.38	69836.830	3.0	117521.910	4.0
209.6451	24.01	-1.90	32603.730	2.5	80288.250	1.5
209.6504	24.01	-4.17	21822.860	2.5	69506.160	3.5
209.6519	24.01	-2.77	25033.950	3.5	72716.910	4.5
209.6541	26.01	-3.37	13474.430	2.5	61156.900	3.5
209.6614	26.02	-3.34	132079.910	3.0	179760.720	3.0
209.6623	28.02	-3.21	82277.000	1.0	129957.600	1.0
209.6668	26.02	-4.31	132079.910	3.0	179759.490	2.0
209.6678	28.01	-3.36	70635.460	2.5	118314.820	2.5
209.6680	24.02	-1.72	49626.800	2.0	97306.100	2.0
209.6685	25.01	-4.71	43339.100	2.0	91018.300	3.0
209.6707	28.02	-3.56	71067.000	3.0	118745.700	3.0
209.6712	26.02	-2.89	151534.130	3.0	199212.720	4.0
209.6734	26.02	-4.00	132079.910	3.0	179757.980	4.0
209.6757	26.01	-3.37	22637.190	4.5	70314.740	4.5
209.6805	18.01	-2.64	161089.310	.5	208765.770	.5
209.6836	10.01	-4.73	281171.380	2.5	328847.150	3.5
209.6859	7.01	-1.17	166582.450	2.0	214257.690	1.0
209.6873	26.02	-3.65	151537.800	4.0	199212.720	4.0
209.6931	30.02	-1.73	234384.000	3.0	282057.600	3.0
209.6942	26.01	-1.36	44929.590	2.5	92602.940	3.5
209.6944	27.02	-1.98	77622.900	4.5	125296.200	5.5
209.6963	14.01	-4.03	84004.520	1.5	131677.400	2.5
209.6995	28.01	-2.07	75149.480	4.5	122821.630	5.5
209.7011	14.01	-4.37	76665.610	.5	124337.400	.5
209.7016	23.01	-2.72	14461.730	3.0	62133.390	3.0
209.7020	26.01	-1.77	16369.390	3.5	64040.960	3.5
209.7091	10.01	-3.70	281025.940	2.5	328695.900	2.5
209.7092	10.01	-4.62	281025.940	2.5	328695.880	1.5
209.7096	28.01	-1.19	23108.280	2.5	70778.120	3.5
209.7097	24.01	-4.43	38269.670	3.5	85939.500	4.5
209.7120	75.00	.73	0.000	0.0	47684.443	0.0
209.7121	2.01	-1.89	390142.340	0.0	437826.761	0.0
209.7142	27.01	-2.96	4560.800	3.0	52229.600	2.0
209.7207	28.01	-4.89	73893.730	1.5	121561.060	.5
209.7296	23.02	-3.01	99941.200	3.5	147606.500	3.5
209.7303	26.01	-3.05	38458.990	4.5	86124.140	4.5
209.7317	23.02	-2.44	99181.500	1.5	146846.320	1.5
209.7402	26.01	-1.56	25428.800	5.5	73091.700	4.5
209.7407	23.01	-2.61	20242.320	4.0	67909.100	3.0
209.7464	25.01	-1.41	30679.240	5.0	78340.720	6.0
209.7486	26.02	.58	70694.030	5.0	118355.010	6.0
209.7509	26.01	-3.14	20340.360	5.5	68000.820	4.5
209.7539	14.01	-4.37	76665.610	.5	124325.400	1.5
209.7547	26.01	-1.77	13673.210	1.5	61332.820	1.5
209.7551	25.00	-2.26	0.000	2.5	47659.520	2.5
209.7552	25.01	-4.59	36274.290	2.0	83933.770	3.0
209.7586	28.01	-2.62	70635.460	2.5	118294.170	3.5
209.7600	76.00	1.35	5081.424	0.0	52754.956	0.0
209.7639	27.02	-1.31	55729.200	3.5	103366.700	4.5
209.7670	24.02	-1.41	111375.000	3.0	159031.800	2.0
209.7696	26.02	-1.32	70694.030	5.0	118350.240	4.0
209.7714	10.01	-4.81	254292.190	.5	301948.000	1.5
209.7715	26.02	-4.25	132104.940	2.0	179760.720	3.0
209.7741	24.01	-3.80	21822.860	2.5	69478.060	2.5
209.7769	26.02	-3.30	132104.940	2.0	179759.490	2.0
209.7827	24.01	-4.74	21824.820	1.5	69478.060	2.5
209.7858	26.02	-1.83	87901.870	3.0	135554.410	4.0
209.7882	24.03	-2.16	127202.000	4.5	174854.000	3.5
209.7923	28.01	-1.60	52738.450	2.5	100389.520	2.5
209.7926	25.02	-1.04	62747.500	2.5	110398.500	2.5
209.7935	12.02	-1.43	427852.100	0.0	475502.900	1.0
209.7943	23.03	-2.01	215957.700	3.0	263608.300	3.0
209.8032	25.02	-1.59	97023.800	3.5	144672.380	2.5
209.8047	23.01	-2.09	20089.560	1.0	67737.600	2.0
209.8116	10.01	-2.70	281171.380	2.5	328816.070	3.5
209.8117	10.01	-3.82	281171.380	2.5	328816.050	2.5
209.8119	26.00	-2.09	704.003	2.0	48350.620	1.0
209.8127	18.01	-1.72	161048.640	1.5	208695.070	1.5

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WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
209.8199	27.02	-1.50	77121.100	4.5	124765.900	5.5	210.0253	25.01	-1.78	31514.350	4.0	79112.560	5.0
209.8286	23.01	-4.13	18353.890	3.0	65996.700	3.0	210.0269	23.01	-2.10	16533.000	5.0	64130.840	4.0
209.8291	29.01	-1.19	70841.300	3.0	118484.000	3.0	210.0307	26.02	-3.77	132079.910	3.0	179676.890	2.0
209.8291	27.02	-1.71	83938.900	3.5	131581.600	3.5	210.0308	28.01	.06	51557.850	3.5	99154.810	4.5
209.8326	26.02	-4.20	132262.660	6.0	179904.560	7.0	210.0310	25.00	-4.59	17052.290	4.5	64649.200	3.5
209.8326	26.02	-4.50	132262.660	6.0	179904.560	6.0	210.0360	26.01	-1.94	19798.010	2.5	67393.800	3.5
209.8326	25.01	-3.93	43536.900	4.0	91178.800	4.0	210.0375	29.01	-1.48	68730.720	4.0	116326.160	3.0
209.8366	18.01	-4.27	143371.350	1.5	191012.350	1.5	210.0406	23.02	-2.70	98383.530	2.5	145978.270	2.5
209.8369	28.01	.35	75149.480	4.5	122790.410	4.5	210.0447	24.02	-1.70	50089.200	4.0	97683.000	3.0
209.8377	26.01	-3.75	60989.480	4.5	108630.240	5.5	210.0552	23.01	-3.59	18293.870	2.0	65885.300	2.0
209.8380	29.01	.18	68730.720	4.0	116371.410	4.0	210.0592	29.01	-3.25	88362.030	2.0	135952.550	2.0
209.8400	25.02	-1.87	97239.860	6.5	144880.100	5.5	210.0612	26.00	-3.60	0.000	4.0	47590.070	4.0
209.8410	51.00	.98	8469.040	0.0	56124.160	0.0	210.0619	25.03	-2.09	152700.500	4.0	200290.400	4.0
209.8413	28.01	-2.98	58493.210	2.5	106133.140	1.5	210.0630	76.00	1.18	2661.698	0.0	50266.464	0.0
209.8420	18.02	-1.81	204649.240	2.0	252289.020	3.0	210.0646	24.01	-2.18	19798.010	2.5	67387.300	2.5
209.8436	26.02	-3.53	89783.590	4.0	137423.000	3.0	210.0670	74.01	1.37	0.000	0.0	47603.860	0.0
209.8461	18.02	-3.96	156924.680	2.0	204563.530	1.0	210.0693	28.01	-2.46	56075.260	2.5	103663.500	1.5
209.8490	28.01	-3.01	52205.950	3.5	99844.130	3.5	210.0695	8.01	-3.19	207002.520	3.5	254590.700	4.5
209.8495	20.02	-1.16	277022.400	3.0	324660.470	3.0	210.0738	28.01	-3.35	24788.200	1.5	72375.420	1.5
209.8503	25.02	-2.51	131701.690	1.5	179339.590	2.5	210.0752	28.02	-2.89	86646.200	2.0	134233.160	2.0
209.8520	24.00	-6.21	8307.570	4.0	55945.080	5.0	210.0775	26.01	-3.72	39013.280	1.5	66599.660	2.5
209.8533	27.01	-1.85	17771.500	3.0	65408.710	2.0	210.0796	24.02	-1.98	49491.000	1.0	97076.900	1.0
209.8586	24.03	-3.53	127218.000	3.5	174854.000	3.5	210.0798	26.00	-4.45	704.003	2.0	48289.852	1.0
209.8592	23.01	-2.20	16421.510	4.0	64057.390	3.0	210.0840	42.01	1.63	15324.929	0.0	62924.937	0.0
209.8618	23.03	-1.89	215957.700	3.0	263593.000	2.0	210.0846	23.02	-1.89	98062.220	1.5	145647.000	1.5
209.8723	29.01	-1.17	68447.570	3.0	116080.460	3.0	210.0863	26.01	-6.22	22939.350	2.5	70523.730	3.5
209.8732	25.03	-3.35	152700.500	4.0	200333.200	3.0	210.0898	24.01	-2.94	32836.840	3.5	80420.430	2.5
209.8760	26.02	-2.76	142047.000	4.0	189679.070	3.0	210.0930	50.00	.30	3387.616	0.0	50985.585	0.0
209.8882	27.02	-2.19	77383.100	3.5	125012.400	4.5	210.0972	24.01	-4.10	19798.010	2.5	67379.920	1.5
209.8917	28.01	-1.89	68156.570	1.5	115785.060	1.5	210.0976	25.01	-2.65	41190.470	6.0	88772.300	5.0
209.8938	26.00	-1.69	888.132	1.0	48516.150	1.0	210.0983	22.01	-2.53	.8744.270	2.5	56325.940	2.5
209.8949	27.00	-1.78	816.000	3.5	48443.760	2.5	210.1006	26.01	-2.36	26170.190	5.5	17151.340	4.5
209.8993	9.02	-4.21	443865.310	1.5	491492.100	2.5	210.1041	26.02	-3.67	137423.000	3.0	185003.350	2.0
209.9027	27.01	-3.95	18031.500	2.0	65657.500	1.0	210.1081	26.01	-5.62	16369.390	3.5	63946.840	4.5
209.9033	9.02	-4.80	443913.330	4.5	491539.200	5.5	210.1085	10.01	-4.10	280989.530	1.5	328568.880	1.5
209.9061	26.02	.25	70725.010	3.0	118350.240	4.0	210.1085	10.01	-3.67	280989.530	1.5	328568.880	.5
209.9064	22.01	-5.69	0.000	1.5	47625.170	2.5	210.1094	25.02	-4.30	62456.990	.5	110036.140	.5
209.9086	18.01	-3.82	161048.640	1.5	208673.320	2.5	210.1145	26.02	-3.91	132104.940	2.0	179682.940	1.0
209.9130	18.02	-4.00	204649.240	2.0	252272.920	1.5	210.1154	23.03	-2.20	216905.000	1.0	264482.800	2.0
209.9137	18.01	-2.60	144709.910	.5	192333.430	.5	210.1176	23.01	-1.45	14556.090	4.0	62133.390	3.0
209.9141	9.02	-4.81	443868.680	2.5	491492.100	3.5	210.1183	23.02	-1.88	106903.350	5.5	154480.500	4.5
209.9142	28.01	-1.63	53634.620	1.5	101258.010	1.5	210.1190	26.02	-2.74	138691.810	1.0	186268.790	2.0
209.9147	23.01	-1.76	14461.730	3.0	62085.020	2.0	210.1217	28.01	-1.81	68735.980	2.5	116312.340	1.5
209.9151	13.01	-2.86	95546.800	3.0	143170.000	2.0	210.1247	27.02	-1.95	125227.000	3.5	172802.700	2.5
209.9199	13.01	-3.21	95547.900	2.0	143170.000	1.0	210.1255	24.01	-4.55	32844.920	1.5	80420.430	2.5
209.9199	13.01	-3.60	95547.900	2.0	143170.000	2.0	210.1306	8.01	-2.36	211712.660	2.5	259287.000	1.5
209.9213	10.01	-4.39	280947.100	1.5	328568.890	1.5	210.1327	22.01	-3.02	4897.600	3.5	52471.480	2.5
209.9214	10.01	-4.91	280947.100	1.5	328568.880	.5	210.1342	8.01	-1.14	211712.660	2.5	259286.200	2.5
209.9225	27.02	-1.84	78927.800	3.5	126549.300	3.5	210.1370	27.01	-5.27	18031.500	2.0	65604.400	3.0
209.9226	26.02	-1.65	70728.750	4.0	118350.240	4.0	210.1411	26.00	-3.45	888.132	1.0	48460.120	0.0
209.9234	24.00	-9.77	0.000	3.0	47621.310	3.0	210.1441	18.01	-3.55	143371.350	1.5	190942.650	.5
209.9239	13.01	-3.69	95548.800	1.0	143170.000	1.0	210.1445	27.02	-3.24	125012.400	4.5	172583.600	3.5
209.9239	13.01	-3.48	95548.800	1.0	143170.000	1.0	210.1445	27.02	-3.24	125012.400	4.5	172583.600	3.5
209.9239	13.01	-4.78	95548.800	1.0	143170.000	2.0	210.1445	27.02	-3.74	125012.400	4.5	172583.600	3.5
209.9283	27.02	-1.83	77383.100	3.5	125003.300	2.5	210.1451	28.01	-3.68	53037.930	2.5	100609.010	2.5
209.9285	23.01	-1.76	14556.090	4.0	62176.240	4.0	210.1458	26.02	-3.70	135239.740	4.0	182810.660	5.0
209.9288	26.02	-1.99	89907.850	4.0	137527.920	4.0	210.1459	18.01	-2.57	159706.460	.5	207277.350	1.5
209.9288	26.02	-1.91	89907.850	5.0	137527.920	4.0	210.1503	11.02	-1.03	418418.100	1.5	465988.000	.5
209.9312	26.02	-1.18	90483.590	3.0	138103.120	4.0	210.1588	25.01	-3.22	41204.340	5.0	88772.300	5.0
209.9318	20.02	-4.22	323655.060	2.0	371274.480	2.0	210.1613	24.00	-5.02	8307.570	4.0	55874.980	5.0
209.9328	25.02	-1.57	89204.690	4.5	136823.660	3.5	210.1615	26.01	-4.50	13474.430	2.5	61041.780	2.5
209.9335	26.01	-3.36	13474.430	2.5	61093.440	2.5	210.1647	25.02	-1.60	90746.060	5.5	138312.700	4.5
209.9335	23.02	-4.50	105320.180	1.5	152939.200	2.5	210.1701	26.01	-1.74	26932.740	.5	74498.150	1.5
209.9353	26.02	-3.52	83138.230	5.0	130756.840	6.0	210.1704	24.01	-3.80	32855.090	2.5	80420.430	2.5
209.9354	27.00	-1.27	1406.840	2.5	49025.420	1.5	210.1733	9.02	-4.31	443927.410	3.5	491492.100	2.5
209.9358	23.02	-1.61	99508.500	1.5	147127.000	2.5	210.1737	26.02	-4.85	134265.420	2.0	181830.020	3.0
209.9428	26.01	-2.91	26352.800	4.5	73969.710	5.5	210.1765	24.01	-2.58	35356.060	1.5	82920.030	1.5
209.9431	25.01	-3.78	44899.820	3.0	92516.650	4.0	210.1797	26.02	-4.25	134265.420	2.0	181826.660	2.0
209.9441	27.02	-1.50	125992.700	2.5	173609.300	1.5	210.1826	28.01	-2.11	73893.730	1.5	121456.320	1.5
209.9441	27.02	-1.50	125992.700	2.5	173609.300	1.5	210.1839	27.02	-1.93	79425.300	2.5	126987.600	1.5
209.9441	27.02	-3.50	125992.700	2.5	173609.300	1.5	210.1847	23.01	-1.62	20343.000	2.0	67905.100	3.0
209.9476	23.01	-4.74	18269.490	1.0	65885.300	2.0	210.1863	25.01	-3.62	30523.450	6.0	78085.200	5.0
209.9482	26.01	-1.47	36252.960	2.5	83868.650	2.5	210.1875	25.01	-1.00	44521.520	4.0	92083.000	3.0
209.9491	22.01	-3.95	8710.470	1.5	56325.940	2.5	210.1878	29.02	-3.20	89045.900	3.5	136607.300	2.5
209.9502	26.01	-4.65	21812.040	1.5	69427.270	.5	210.1964	24.00	-7.28	7593.160	2.0	55152.630	2.0
209.9519	24.01	-3.72	25033.950	3.5	72648.790	3.5	210.2061	26.01	-3.17	38858.960	2.5	86416.220	3.5
209.9546	26.02	-2.71	93388.750	4.0	141002.990	4.0	210.2094	26.02	-2.06	141399.040	2.0	188955.560	3.0
209.9577	28.01	-2.45	70358.940	4.5	117972.470	3.5	210.2105	25.01	-4.				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
210.3173	18.02	-4.65	157031.400	1.0	204563.530	1.0	210.6012	25.02	-0.84	62568.080	1.5	110036.140	0.5
210.3204	14.00	-2.06	15394.370	0.0	62925.800	1.0	210.6028	25.02	-1.30	90440.500	4.5	137908.200	5.5
210.3205	23.01	-4.57	18353.890	3.0	65885.300	2.0	210.6049	20.02	-0.22	281139.550	1.0	328606.780	2.0
210.3210	23.01	-3.30	8640.210	2.0	56171.490	1.0	210.6068	27.02	-3.54	79425.300	2.5	126892.100	3.5
210.3213	22.01	-5.12	93.940	2.5	47625.170	2.5	210.6074	25.00	-2.81	0.000	2.5	47466.660	1.5
210.3223	24.02	-4.20	49827.700	3.0	97358.700	4.0	210.6080	26.02	-4.10	135990.620	4.0	183457.150	4.0
210.3223	27.02	-1.26	77472.300	2.5	125003.300	2.5	210.6100	26.02	-4.16	135990.620	4.0	183456.690	3.0
210.3235	20.01	-0.63	25191.510	0.5	72722.230	1.5	210.6130	25.01	-0.77	43131.400	2.0	90596.800	2.0
210.3305	26.02	-1.79	97041.380	3.0	144570.530	3.0	210.6136	26.02	-3.17	134360.400	4.0	181825.670	4.0
210.3307	24.02	-0.33	50089.200	4.0	97618.300	5.0	210.6157	24.02	-1.28	65890.900	3.0	113355.700	2.0
210.3328	26.02	-2.93	137423.000	3.0	184951.620	3.0	210.6180	74.01	1.33	1451.835	0.0	48931.158	0.0
210.3330	78.00	0.35	806.575	0.0	48350.232	0.0	210.6188	26.01	-2.77	38660.040	3.5	86124.140	4.5
210.3351	18.01	-0.88	147503.020	1.5	195031.120	2.5	210.6252	26.02	-3.69	132262.660	6.0	179729.310	6.0
210.3392	28.01	-1.04	23108.280	2.5	70635.460	2.5	210.6259	26.00	-2.12	888.132	1.0	48350.620	1.0
210.3400	25.02	-3.00	131701.690	1.5	179228.690	1.5	210.6354	26.02	-0.47	97041.380	3.0	144501.740	2.0
210.3466	24.01	-6.42	21822.860	2.5	69348.360	1.5	210.6370	29.01	-2.32	71531.500	3.0	118991.500	4.0
210.3510	10.01	-3.09	281171.380	2.5	328695.900	2.5	210.6395	26.00	-0.45	704.003	2.0	48163.427	2.0
210.3511	10.01	-4.16	281171.380	2.5	328695.980	1.5	210.6395	23.02	-1.52	99941.200	3.5	147400.620	4.5
210.3523	23.01	-0.40	20622.990	3.0	68147.200	4.0	210.6425	26.02	-3.07	137544.600	2.0	185003.350	2.0
210.3525	24.00	-4.33	7927.470	2.0	55451.640	3.0	210.6533	18.02	-4.44	204797.370	3.0	252253.690	2.0
210.3528	24.01	-4.15	21824.250	0.5	69348.360	1.5	210.6556	23.03	-2.19	100200.700	2.0	147656.500	3.0
210.3553	24.01	-3.17	21824.820	1.5	69348.360	1.5	210.6570	28.01	-1.17	68735.980	2.5	116191.470	2.5
210.3607	23.01	-5.68	18293.870	2.0	65816.200	1.0	210.6600	17.02	-2.59	201073.000	0.5	248528.200	1.5
210.3643	26.02	-0.87	70725.010	3.0	118246.520	3.0	210.6605	26.02	-3.18	134937.840	2.0	182392.550	2.0
210.3643	25.02	-1.48	97000.800	4.5	144522.300	4.5	210.6643	18.01	-4.16	149179.170	3.5	196633.020	2.5
210.3652	26.02	-2.86	88663.870	4.0	136185.170	5.0	210.6694	26.00	-2.76	0.000	4.0	47452.702	4.0
210.3683	23.01	-0.36	14655.630	5.0	62176.240	5.0	210.6809	24.02	-0.65	49626.800	2.0	97078.900	1.0
210.3712	25.01	-3.90	37847.900	2.0	85367.850	2.0	210.6845	10.02	-0.61	389139.050	3.0	436586.340	4.0
210.3794	30.02	-4.44	235452.500	2.0	282970.600	2.0	210.6846	26.02	-3.78	140693.360	3.0	188142.640	2.0
210.3809	26.02	-0.15	70728.750	4.0	118246.520	3.0	210.6884	26.02	-2.23	136008.740	3.0	183457.150	4.0
210.3854	26.02	-4.15	137544.600	2.0	185061.350	1.0	210.6905	26.02	-3.18	136008.740	3.0	183456.690	3.0
210.3856	25.01	-3.43	37851.150	3.0	85367.850	2.0	210.7009	27.02	-1.65	79425.300	2.5	126870.900	2.5
210.3885	28.01	-3.81	70778.120	3.5	118294.170	3.5	210.7110	24.01	-3.33	32844.920	1.5	80288.250	1.5
210.3925	26.02	-2.16	89907.850	4.0	137423.000	3.0	210.7120	24.02	-0.48	70980.200	1.0	118423.300	2.0
210.3945	28.01	-2.17	58493.210	2.5	106007.890	2.5	210.7129	20.02	-0.86	281139.550	1.0	328582.450	1.0
210.3960	26.02	-3.43	135316.420	5.0	182830.760	6.0	210.7137	18.01	-3.56	149179.170	3.5	196621.880	3.5
210.3973	26.00	-1.24	415.932	4.0	47929.981	4.0	210.7148	26.02	-1.81	134976.220	3.0	182418.700	4.0
210.3979	23.01	-5.41	18269.490	1.0	65783.400	0.0	210.7158	26.02	-3.35	137561.100	1.0	185003.350	2.0
210.4035	22.01	-3.01	8710.470	1.5	56223.133	0.5	210.7200	28.00	-2.59	3409.925	2.0	50851.220	1.0
210.4057	26.01	-1.27	44915.070	3.5	92427.220	4.5	210.7228	26.02	-2.53	135990.620	4.0	183431.280	5.0
210.4195	25.01	-1.98	34910.430	4.0	82419.480	3.0	210.7234	20.02	-4.79	326186.320	3.0	373626.650	2.0
210.4210	24.00	-4.91	7593.160	2.0	55101.870	3.0	210.7293	24.01	-2.27	19631.280	1.5	67070.480	1.5
210.4233	29.01	-2.82	71531.500	3.0	119039.680	2.0	210.7321	23.02	-1.52	98383.530	2.5	145822.110	1.5
210.4285	18.01	-1.99	160239.350	1.5	207746.380	2.5	210.7322	26.02	-0.13	70725.010	3.0	118163.560	2.0
210.4290	42.01	1.36	15324.920	0.0	62846.896	0.0	210.7356	27.01	-4.49	950.300	3.0	48388.100	2.0
210.4292	26.02	-3.27	134937.840	2.0	182444.700	3.0	210.7416	26.02	-2.55	134976.220	3.0	182412.650	4.0
210.4381	22.01	-2.21	8744.270	2.5	56249.110	1.5	210.7418	23.01	-5.59	18353.890	3.0	65790.280	4.0
210.4396	26.02	-2.77	134976.220	3.0	182480.720	2.0	210.7450	28.01	-3.23	68156.570	1.5	115592.250	1.5
210.4400	26.01	-3.86	22810.330	3.5	70314.740	4.5	210.7467	23.03	-1.27	217836.300	3.0	265271.600	3.0
210.4401	27.02	-3.97	125690.500	3.5	173194.900	2.5	210.7522	26.00	-5.17	7376.762	4.0	54810.820	4.0
210.4474	28.01	-1.72	68965.650	1.5	116468.400	1.5	210.7542	27.02	-3.56	125369.100	2.5	172802.700	2.5
210.4544	27.00	-1.86	816.000	3.5	48317.170	3.5	210.7554	26.01	-0.85	26170.190	5.5	73603.530	5.5
210.4585	26.02	-3.37	137561.100	1.0	185061.350	1.0	210.7562	24.01	-2.79	32855.090	2.5	80266.250	1.5
210.4639	25.02	-0.68	90746.060	5.5	138245.090	5.5	210.7566	26.02	-1.42	84671.870	3.0	132104.940	2.0
210.4662	25.02	0.43	97023.800	3.5	144522.300	4.5	210.7568	18.01	-1.87	161048.640	1.5	208481.660	0.5
210.4675	30.02	-0.62	235452.500	2.0	282950.700	2.0	210.7583	26.02	-3.22	134976.220	3.0	182408.910	3.0
210.4687	24.01	-3.05	35356.060	1.5	82854.000	0.5	210.7604	25.03	-0.84	152858.200	3.0	200290.400	4.0
210.4797	29.01	-4.48	23998.220	1.0	71493.680	2.0	210.7609	24.02	-0.33	71166.100	2.0	118598.200	3.0
210.4816	25.02	-0.97	90440.500	4.5	137935.530	4.5	210.7619	26.01	-2.93	31811.870	2.5	79243.730	1.5
210.4842	9.02	-4.57	443913.330	4.5	491407.750	4.5	210.7623	28.01	-3.05	68735.980	2.5	116167.760	1.5
210.4879	23.01	-4.94	16533.000	5.0	64026.600	4.0	210.7642	28.01	-4.18	73893.730	1.5	121325.090	2.5
210.4884	24.02	-0.23	49626.800	2.0	97120.300	3.0	210.7653	11.02	-1.29	418556.900	0.5	465988.000	0.5
210.4885	18.01	-1.36	147503.020	1.5	194996.490	1.5	210.7660	25.00	-3.46	17282.000	3.5	64712.940	2.5
210.4947	28.01	-2.77	73893.730	1.5	121385.800	1.5	210.7683	24.01	-2.72	38509.070	3.5	85939.500	4.5
210.4964	25.03	-0.80	152700.500	4.0	200192.200	5.0	210.7684	24.02	-0.46	49491.000	1.0	96921.400	2.0
210.4965	18.02	-3.60	204797.370	3.0	252289.020	3.0	210.7793	26.01	-2.58	13904.870	0.5	61332.820	1.5
210.5017	26.02	-2.73	88694.670	5.0	136185.170	5.0	210.7827	28.01	-1.44	58705.950	1.5	106133.140	1.5
210.5021	28.02	-0.40	85834.800	5.0	133325.200	4.0	210.7869	25.02	-1.27	63285.370	4.5	110711.620	3.5
210.5023	26.02	-0.45	93512.640	4.0	141002.990	4.0	210.7874	26.02	-3.22	89783.590	4.0	137209.730	4.0
210.5025	26.01	-4.63	21812.040	1.5	69302.350	1.5	210.7916	25.02	-0.80	62747.500	2.5	110172.690	1.5
210.5121	26.02	-3.51	137573.200	0.0	185061.350	1.0	210.7940	24.01	-1.17	20024.180	3.5	67440.620	4.5
210.5167	27.02	-0.81	82920.700	3.5	130407.600	2.5	210.7953	28.01	0.54	32499.530	4.5	79923.580	4.5
210.5180	17.02	-4.26	174613.900	2.5	222100.700	1.5	210.8020	42.01	1.38	23148.708	0.0	70586.588	0.0
210.5261	26.02	-3.97	141539.550	6.0	189024.530	5.0	210.8027	23.02	-1.64	98399.420	0.5	145822.110	1.5
210.5336	27.01	-2.90	4028.900	4.0	51912.200	3.0	210.8046	25.01	-1.29	30523.450	6.0	77949.710	7.0
210.5336	24.02	-3.70	110154.060	4.0	157637.300	3.0	210.8056	27.00	-3.23	1406.840	2.5	48826.670	2.5
210.5367	25.01	-3.32	34696.190	3.0	91178.800	4.0	210.8069	18.01	-2.01	147875.860	2.5	195297.610	1.5
210.5376	26.01	-4.82	13474.430	2.5	60								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
210.8896	28.00	-1.70	1332.153	3.0	48735.308	2.0	211.1765	26.02	-4.36	136117.940	2.0	183456.690	3.0
210.8960	26.00	-1.33	888.132	1.0	48289.652	1.0	211.1792	26.01	-1.86	25805.320	4.5	73143.480	3.5
210.8967	26.01	-1.98	25787.600	1.5	73189.160	1.5	211.1797	26.02	-2.50	93412.930	2.0	140750.980	2.0
210.8978	27.00	-1.97	816.000	3.5	48217.320	3.5	211.1798	25.01	-3.55	34761.810	5.0	82099.820	4.0
210.9003	25.01	-1.45	38901.800	4.0	86302.550	3.0	211.1805	26.02	-1.11	87901.870	3.0	135239.740	4.0
210.9014	26.01	-4.76	44929.590	2.5	92330.100	2.5	211.1807	23.02	-3.43	99508.500	1.5	146846.320	1.5
210.9021	28.01	-1.79	32523.540	3.5	79923.880	4.5	211.1819	25.01	-2.43	44745.460	2.0	92083.000	3.0
210.9043	26.01	-2.33	25787.600	1.5	73187.460	1.5	211.1839	24.02	-3.23	112466.200	3.0	159803.300	4.0
210.9047	24.00	-5.38	7593.160	2.0	54992.930	2.0	211.1866	9.02	-3.92	444202.700	5.5	491539.200	6.5
210.9047	18.01	-2.08	143107.600	2.5	190507.360	1.5	211.2090	29.01	.92	26133.037	0.0	73479.504	0.0
210.9050	22.01	-5.18	225.470	3.5	47625.170	2.5	211.2101	29.01	-.03	26264.400	2.0	73595.640	1.0
210.9101	26.01	-.86	26352.800	4.5	73751.340	4.5	211.2107	28.01	-2.64	29070.930	1.5	76462.030	2.5
210.9132	23.02	-2.79	98825.190	3.5	146223.050	3.5	211.2170	28.01	-2.54	67880.160	2.5	115209.850	3.5
210.9134	26.02	-4.40	135088.600	0.0	182486.400	1.0	211.2182	24.01	-1.34	20024.180	3.5	67353.600	4.5
210.9147	10.01	-4.05	281171.380	2.5	328568.690	1.5	211.2207	26.02	-4.73	132564.710	5.0	179893.560	5.0
210.9205	26.00	-.41	12968.552	2.0	60364.760	3.0	211.2234	22.01	-6.56	8997.690	3.5	56325.940	2.5
210.9207	26.00	-3.47	415.932	3.0	47812.104	4.0	211.2261	25.01	-3.23	46903.260	2.0	94230.900	2.0
210.9241	23.01	-3.47	16421.510	4.0	63816.900	3.0	211.2280	26.02	-1.92	83429.610	6.0	130756.840	6.0
210.9268	23.01	-2.41	20343.000	2.0	67737.800	2.0	211.2294	28.02	-3.94	133692.000	5.0	181018.900	5.0
210.9272	30.02	-1.34	237506.800	1.0	284901.500	2.0	211.2299	30.02	-2.25	235623.900	3.0	282950.700	2.0
210.9377	18.01	-2.51	161089.310	.5	208481.660	.5	211.2301	26.02	-2.68	88663.870	4.0	135990.620	4.0
210.9407	26.02	-4.62	140750.980	2.0	188142.640	2.0	211.2348	17.02	-2.87	201332.000	1.5	248657.760	2.5
210.9446	26.01	-6.78	21711.890	3.5	69102.690	2.5	211.2412	27.00	-2.53	4690.180	2.5	52014.450	1.5
210.9449	28.01	-1.66	67694.640	2.5	115085.360	3.5	211.2446	28.01	-1.57	32499.530	4.5	79823.030	3.5
210.9504	27.02	-3.11	77622.900	4.5	125012.400	4.5	211.2494	23.02	-3.48	99804.570	2.5	147127.000	2.5
210.9570	30.02	-1.39	234866.900	1.0	282254.900	1.0	211.2501	26.02	-.96	92523.910	5.0	139846.160	6.0
210.9587	25.00	-2.14	0.000	2.5	47387.620	3.5	211.2504	29.01	-1.20	70841.300	3.0	118163.500	2.0
210.9602	30.02	-.38	238336.200	2.0	285723.500	3.0	211.2508	25.01	-3.69	43696.190	3.0	91018.300	3.0
210.9615	30.02	-1.78	235452.500	2.0	282839.500	3.0	211.2519	26.02	-2.11	135096.840	3.0	182416.700	4.0
210.9633	30.02	-1.97	238205.500	1.0	285592.100	2.0	211.2524	25.01	-3.41	34910.430	4.0	82232.180	5.0
210.9754	26.02	-2.59	135096.840	3.0	182480.720	2.0	211.2592	26.01	-4.46	20024.180	3.5	67344.420	2.5
210.9789	25.01	-1.45	35004.430	3.0	82387.530	3.0	211.2624	28.00	-2.36	1713.080	1.0	49032.589	2.0
210.9791	28.00	-1.77	1332.153	3.0	48715.200	4.0	211.2647	27.01	-2.51	18338.500	1.0	65657.500	1.0
210.9820	27.01	-5.35	17771.500	3.0	65153.900	4.0	211.2663	25.01	-3.05	30523.450	6.0	77842.090	6.0
210.9882	24.01	-1.40	19631.280	1.5	67012.280	2.5	211.2680	77.00	.89	6291.287	0.0	53624.532	0.0
210.9895	26.02	-3.90	140750.980	2.0	188131.700	1.0	211.2686	26.02	-4.71	139680.470	3.0	186998.600	4.0
210.9898	25.01	-2.71	34761.810	5.0	82142.460	6.0	211.2757	20.01	-.38	25414.400	1.5	72730.930	2.5
210.9976	24.00	-7.99	8307.570	4.0	55686.460	5.0	211.2771	23.01	-3.66	16340.970	3.0	63657.200	2.0
211.0051	27.01	-3.53	18031.500	2.0	65408.710	2.0	211.2777	12.02	-.44	431530.000	1.0	478846.100	2.0
211.0053	26.02	-2.38	87901.870	3.0	135279.040	2.0	211.2784	25.02	-3.56	84981.630	3.5	132297.550	2.5
211.0089	24.01	-1.64	38563.150	4.5	85939.500	4.5	211.2789	26.02	-2.81	135096.840	3.0	162412.650	4.0
211.0158	23.03	-1.79	217108.000	2.0	264462.800	2.0	211.2810	25.01	-1.63	44745.460	2.0	92060.800	1.0
211.0207	27.02	-3.58	125003.300	2.5	172377.000	3.5	211.2843	23.02	-1.29	98825.190	3.5	146139.800	2.5
211.0219	26.02	-3.49	139625.170	4.0	186998.600	4.0	211.2956	26.02	-4.18	135096.840	3.0	182408.910	3.0
211.0234	26.00	-1.13	6928.266	5.0	54301.360	4.0	211.2970	26.00	-.68	978.076	0.0	48289.852	1.0
211.0235	26.01	-2.42	30764.460	3.5	78137.530	3.5	211.2977	27.02	-1.97	78927.800	3.5	126239.400	4.5
211.0245	22.01	-5.36	93.940	2.5	47466.600	3.5	211.3040	25.02	-.97	97000.800	4.5	144311.000	5.5
211.0246	26.02	-2.29	69695.730	4.0	117068.560	3.0	211.3048	24.01	-2.03	20024.180	3.5	67334.200	3.5
211.0259	26.00	-1.84	978.076	0.0	48350.620	1.0	211.3049	30.02	-1.48	237506.800	1.0	284816.800	1.0
211.0260	83.00	.30	0.000	0.0	47387.526	0.0	211.3085	26.00	-2.66	6928.266	5.0	54237.460	4.0
211.0302	29.01	-1.28	88362.030	2.0	135733.600	3.0	211.3146	20.01	-1.33	25414.400	1.5	72722.230	1.5
211.0314	25.02	-.28	86578.240	3.5	133949.540	4.5	211.3290	26.02	-1.69	93388.750	4.0	140693.360	3.0
211.0360	74.01	1.74	8630.355	0.0	56016.084	0.0	211.3295	28.01	-2.38	10115.660	2.5	57420.160	2.5
211.0389	24.01	-3.17	20024.180	3.5	67393.600	3.5	211.3321	24.02	-2.14	71736.000	5.0	119039.900	5.0
211.0436	26.01	-3.61	13673.210	1.5	61041.780	2.5	211.3342	25.00	-3.46	17282.000	3.5	64585.440	4.5
211.0452	29.01	-4.16	72724.000	2.0	120092.200	2.0	211.3350	26.02	-.46	92523.910	5.0	139827.170	4.0
211.0475	26.01	-4.43	44915.070	3.5	92282.760	3.5	211.3362	26.01	-4.26	31387.980	2.5	78690.980	2.5
211.0497	25.00	-4.87	17282.000	3.5	64649.200	3.5	211.3402	30.02	-1.10	234866.900	1.0	282169.000	2.0
211.0605	23.02	-2.22	99804.570	2.5	147169.340	3.5	211.3409	28.01	-2.26	58705.950	1.5	106007.890	2.5
211.0612	23.02	-2.45	44345.820	3.5	91710.430	3.5	211.3412	26.02	-2.03	89907.850	4.0	137209.730	4.0
211.0613	30.02	-1.63	257566.100	1.0	304930.700	2.0	211.3412	26.02	-2.02	89907.850	5.0	137209.730	4.0
211.0613	27.02	-1.86	125012.400	4.5	172377.000	3.5	211.3442	26.01	-3.99	81347.440	7.5	108648.640	6.5
211.0645	29.01	-2.74	69867.810	2.0	117231.690	1.0	211.3452	20.02	-2.05	323003.560	1.0	703004.540	2.0
211.0653	24.02	-2.40	71676.200	4.0	119039.900	5.0	211.3454	9.02	-4.11	444238.270	4.5	491539.200	5.5
211.0665	24.00	-8.03	7593.160	2.0	54956.590	1.0	211.3455	26.02	-2.05	93392.450	3.0	140693.360	3.0
211.0669	10.01	-2.61	281332.550	.5	328695.880	1.5	211.3518	28.01	.46	32523.540	3.5	79825.030	3.5
211.0679	24.01	-3.03	20024.180	3.5	67387.300	2.5	211.3550	21.02	-3.02	112254.200	1.5	159553.000	2.5
211.0681	24.01	-3.73	20512.620	2.5	67875.680	3.5	211.3560	25.02	-1.92	90936.220	1.5	138234.790	1.5
211.0722	26.01	-1.99	13673.210	1.5	61035.370	.5	211.3576	30.02	-.85	238205.500	1.0	285503.700	1.0
211.0729	28.02	-2.86	71383.700	2.0	118745.700	3.0	211.3630	6.01	-1.86	186443.690	1.5	233740.700	2.5
211.0732	26.01	-1.14	18886.750	.5	66248.670	.5	211.3667	28.01	-.85	68965.650	1.5	116261.810	.5
211.0745	18.01	-2.29	143371.350	1.5	190732.970	.5	211.3677	26.02	-3.30	88694.670	5.0	135990.620	4.0
211.0883	26.02	-1.72	93392.450	3.0	140750.980	2.0	211.3687	26.02	-3.61	135096.840	3.0	182392.550	2.0
211.0896	18.01	-1.82	147503.020	1.5	194861.270	2.5	211.3698	25.02	-1.39	86654.070	4.5	133949.540	4.5
211.0912	24.01	-2.48	20512.620	2.5	67870.500	1.5	211.3737	24.02	.11	49626.800	2.0	96921.400	2.0
211.0934	25.00	-3.56	17052.290	4.5	64409.690	3.5	211.3749	25.01	-1.54	44745.460	2.0	92039.800	2.0
211.0936	24.01	-2.49	20518.330	3.5	67875.680	3.5	211.3791	23.01	-6.20	2604.820	1.0	49898.220	2.0
211.0969	27.02	-3.78	125227.000	3.5	172583.600	3.5	211.3812	22.00	-2.30	170.132	3.0</		

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
211.4639	14.00	-4.35	77.115	1.0	47351.554	2.0
211.4727	24.01	-3.25	19798.010	2.5	67070.480	1.5
211.4754	14.00	-2.36	15394.370	0.0	62666.250	1.0
211.4787	25.02	-3.74	131287.180	.5	178558.300	1.5
211.4839	26.02	-4.55	135582.080	6.0	182852.050	7.0
211.4860	24.02	.38	50089.200	4.0	97358.700	4.0
211.4864	24.02	-1.82	49827.700	3.0	97097.100	4.0
211.4872	26.02	-3.78	135217.170	1.0	182486.400	1.0
211.4955	26.01	-4.57	25787.600	1.5	73054.970	2.5
211.4958	6.00	-2.67	72610.720	2.0	119878.000	1.0
211.4987	28.01	-2.42	77736.790	4.5	125003.440	5.5
211.5018	6.01	-1.89	186427.350	.5	233693.300	1.5
211.5077	18.01	-2.86	144709.910	.5	191974.530	1.5
211.5126	26.02	-2.19	135217.170	1.0	182480.720	2.0
211.5129	23.02	-1.13	98383.530	2.5	145647.000	1.5
211.5146	27.02	-1.53	82920.700	3.5	130183.000	3.5
211.5170	26.00	-1.12	704.003	2.0	47966.571	3.0
211.5191	26.02	-3.07	88923.070	6.0	136185.170	5.0
211.5221	25.00	-3.74	17451.520	2.5	64712.940	2.5
211.5242	26.02	-2.86	142535.070	2.0	189796.030	1.0
211.5338	30.02	-.69	237642.700	3.0	284901.500	2.0
211.5355	24.01	-4.81	38315.000	2.5	85573.420	3.5
211.5388	25.01	-1.56	43339.100	2.0	90596.600	2.0
211.5410	24.02	-.02	71166.100	2.0	118423.300	2.0
211.5418	26.02	-3.95	136200.130	3.0	183457.150	4.0
211.5439	26.02	-3.92	136200.130	3.0	183456.690	3.0
211.5453	26.02	-3.90	135554.410	4.0	182810.660	5.0
211.5468	30.02	-.76	238936.200	2.0	285592.100	2.0
211.5491	27.02	-2.57	91715.100	2.5	138970.500	1.5
211.5521	25.00	-3.98	17568.480	1.5	64823.210	2.5
211.5549	28.01	-1.67	53365.170	4.5	100619.260	4.5
211.5561	9.02	-4.16	444238.270	4.5	491492.100	3.5
211.5562	21.02	-2.87	112299.200	2.5	159553.000	3.5
211.5562	21.02	-4.17	112299.200	2.5	159553.000	2.5
211.5643	30.02	-1.83	257678.700	2.0	304930.700	2.0
211.5643	30.02	-.68	257678.700	2.0	304930.700	3.0
211.5668	25.01	-2.70	31661.720	3.0	78913.170	2.0
211.5700	26.01	-3.29	26352.800	4.5	73603.530	5.5
211.5708	25.02	-1.67	97271.760	5.5	144522.300	4.5
211.5750	6.01	-2.38	186443.690	1.5	233693.300	1.5
211.5757	26.02	-4.06	142535.070	2.0	189784.520	2.0
211.5773	24.01	-4.32	44307.440	.5	91556.540	1.5
211.5791	24.02	-4.31	111375.000	3.0	158623.700	4.0
211.5828	2.01	-1.67	390142.340	0.0	437405.161	0.0
211.5832	28.01	-1.62	67694.640	2.5	114942.620	1.5
211.5841	23.02	-1.13	98399.420	.5	145647.000	1.5
211.5907	26.02	-4.09	136185.170	5.0	183431.280	5.0
211.5942	27.01	-2.16	17771.500	3.0	65016.630	2.0
211.5955	24.01	-2.90	30864.610	2.5	78109.640	1.5
211.6021	6.01	-2.59	186427.350	.5	233670.900	.5
211.6091	24.03	-1.85	110700.000	3.5	157942.000	3.5
211.6121	22.01	-4.70	225.470	3.5	47466.800	3.5
211.6143	24.01	-3.42	19631.280	1.5	66872.120	.5
211.6188	28.01	-3.23	67880.160	2.5	115120.000	2.5
211.6190	18.01	-2.43	161089.310	.5	208329.080	.5
211.6198	25.02	-1.19	89898.080	.5	137137.690	1.5
211.6216	20.02	-3.02	326186.320	3.0	373425.510	4.0
211.6225	28.01	-1.42	56424.490	1.5	103663.500	1.5
211.6344	10.01	-3.39	281332.550	.5	328568.890	1.5
211.6345	10.01	-3.09	281332.550	.5	328568.880	.5
211.6418	19.02	-2.98	242165.300	1.5	289400.000	2.5
211.6432	26.02	-4.51	132659.170	4.0	179893.560	5.0
211.6520	25.00	-3.33	17451.520	2.5	64683.950	1.5
211.6521	27.02	-4.25	123123.100	1.5	170355.500	2.5
211.6537	25.01	-2.11	34761.810	5.0	81993.850	4.0
211.6551	26.02	-1.43	69836.830	3.0	117068.560	3.0
211.6573	28.01	-2.57	51045.460	4.5	98276.700	4.5
211.6579	23.03	-3.44	217836.300	3.0	265067.400	2.0
211.6593	26.02	-.77	69837.760	2.0	117068.560	3.0
211.6603	25.02	-.91	86520.940	2.5	133751.500	3.5
211.6673	27.02	-1.93	82363.300	4.5	129592.300	4.5
211.6687	11.02	-3.75	367052.300	1.5	414281.000	2.5
211.6687	18.01	-1.57	142186.270	4.5	189414.960	3.5
211.6712	23.02	-2.32	99941.200	3.5	147169.340	3.5
211.6721	28.01	-3.60	67880.160	2.5	115108.090	2.5
211.6727	28.01	-1.69	53365.170	4.5	100592.980	3.5
211.6735	18.01	-3.07	163299.470	2.5	210527.100	2.5
211.6741	24.01	-5.60	0.000	2.5	47227.500	3.5
211.6741	27.02	-1.62	126381.800	1.5	173609.300	1.5
211.6741	27.02	-1.62	126381.800	1.5	173609.300	1.5
211.6741	27.02	-3.23	126381.800	1.5	173609.300	1.5
211.6750	6.01	-1.86	186466.020	2.5	233693.300	1.5
211.6753	6.01	-1.89	186443.690	1.5	233670.900	.5
211.6816	28.01	-4.05	68965.650	1.5	116191.470	2.5
211.6843	24.00	-3.31	7927.470	2.0	59152.630	2.0
211.6848	27.00	-3.49	0.000	4.5	47225.110	3.5
211.6916	26.00	-4.19	7376.762	4.0	54600.350	3.0
211.6995	26.01	-.45	25428.800	5.5	72650.630	4.5
211.7044	28.01	-2.49	68735.980	2.5	115956.710	2.5
211.7065	27.00	-3.74	3482.820	4.5	50703.080	5.5
211.7081	27.02	-2.61	56373.800	2.5	103593.700	2.5
211.7088	25.02	-1.74	90440.500	4.5	137660.240	3.5
211.7104	27.01	-2.61	21624.400	5.0	68843.800	4.0
211.7166	11.02	-3.63	415173.200	1.5	462391.200	.5
211.7220	25.02	-.82	89704.690	4.5	136421.500	5.5
211.7252	27.00	-2.63	1809.330	1.5	49025.420	1.5
211.7271	23.01	-.79	20522.140	1.0	67737.800	2.0
211.7274	30.02	-.47	235623.900	3.0	282839.500	3.0
211.7292	29.01	.66	68447.570	3.0	115662.770	4.0
211.7334	24.01	-2.15	19798.010	2.5	67012.280	2.5
211.7406	28.01	-4.49	52205.950	3.5	99418.610	3.5
211.7471	23.01	-6.03	2687.010	2.0	49898.220	2.0
211.7471	23.01	-1.68	208.890	3.0	47420.100	4.0
211.7480	26.01	-3.08	25805.320	4.5	73016.330	3.5
211.7490	28.01	-1.47	53634.620	1.5	100845.410	.5
211.7521	24.02	.51	50408.200	5.0	97618.300	5.0
211.7527	27.00	-2.04	1406.840	2.5	48615.560	2.5
211.7625	26.01	-3.04	31483.200	3.5	78690.980	2.5
211.7644	26.02	-4.78	135279.040	2.0	182486.400	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
211.7660	76.00	.73	2661.698	0.0	49883.632	0.0
211.7663	14.01	-4.42	79338.760	1.5	126545.700	.5
211.7672	25.01	-2.20	34910.430	4.0	82117.160	5.0
211.7699	26.01	-8.26	23317.600	2.5	70523.730	3.5
211.7713	24.00	-3.72	7750.780	0.0	54956.590	1.0
211.7751	26.02	-3.63	135239.740	4.0	182444.700	3.0
211.7861	26.02	-4.29	139680.470	3.0	186882.980	3.0
211.7875	27.02	-3.93	125992.700	2.5	173194.900	2.5
211.7875	27.02	-3.93	125992.700	2.5	173194.900	2.5
211.7875	27.02	-3.93	125992.700	2.5	173194.900	2.5
211.7899	26.02	-3.55	135279.040	2.0	182480.720	2.0
211.7925	18.01	-2.98	161048.640	1.5	208249.740	1.5
211.7956	27.01	-3.19	950.300	3.0	48150.700	3.0
211.7960	76.00	.83	0.000	0.0	47215.245	0.0
211.8005	30.02	-1.13	235452.500	2.0	282651.800	1.0
211.8078	25.00	-3.96	17451.520	2.5	64649.200	3.5
211.8145	17.02	-2.83	201332.000	1.5	248528.200	1.5
211.8199	26.01	-1.25	20805.830	4.5	68006.820	4.5
211.8200	26.02	-1.76	87901.870	3.0	135096.540	3.0
211.8261	28.02	-3.48	86646.200	2.0	133839.800	1.0
211.8270	25.02	-.24	89307.220	5.0	136500.830	6.5
211.8295	9.02	-4.93	444202.700	5.5	491395.560	5.5
211.8302	27.02	-3.30	82363.300	4.5	129556.000	5.5
211.8307	25.02	-.52	90936.220	1.5	138128.800	1.5
211.8358	29.01	-1.12	68447.570	3.0	115639.020	2.0
211.8380	23.01	-6.09	19112.930	4.0	66363.680	3.0
211.8411	23.02	-2.14	42267.400	2.5	89457.670	2.5
211.8415	26.02	-1.20	69747.400	0.0	116937.570	1.0
211.8429	24.00	-9.39	0.000	3.0	47189.870	4.0
211.8447	25.02	-1.48	90746.060	5.5	137935.530	4.5
211.8450	25.01	-2.13	34910.430	4.0	82099.820	4.0
211.8480	51.00	.52	18309.257	0.0	65512.912	0.0
211.8485	25.01	-3.20	35004.430	3.0	82193.040	2.0
211.8533	22.00	-1.85	0.000	2.0	47187.540	2.0
211.8562	28.00	-1.64	2216.519	2.0	49403.420	1.0
211.8564	26.02	-4.63	69788.190	1.0	116975.050	2.0
211.8716	26.02	-3.58	151534.130	3.0	198717.600	4.0
211.8716	26.02	-3.93	132564.710	5.0	179748.170	5.0
211.8727	28.01	-4.80	54557.050	4.5	101740.270	3.5
211.8729	25.01	-1.37	44899.820	3.0	92083.000	3.0
211.8746	26.00	-6.50	7376.762	4.0	54559.560	3.0
211.8773	30.02	-.89	237506.800	1.0	284689.000	1.0
211.8777	24.00	-4.99	7810.820	1.0	54992.930	2.0
211.8840	26.02	-2.55	93512.640	4.0	140693.360	3.0
211.8861	28.01	-1.11	67694.640	2.5	114874.880	2.5
211.8870	74.01	1.31	0.000	0.0	47194.967	0.0
211.8881	26.02	-4.35	151537.800	4.0	198717.600	4.0
211.8919	26.02	-3.29	135239.740	4.0	182416.700	4.0
211.8925	23.02	-3.11	99804.570	2.5	146983.380	2.5
211.8949	18.01	-2.39	163299.470	2.5	210477.770	2.5
211.9020	27.02	-1.50	124765.900	5.5	171942.600	4.5
211.9047	30.02	-2.92	235452.500	2.0	282651.800	2.0
211.9051	26.01	-1.01	20340.360	5.5	67516.370	5.5
211.9079	26.02	-3.38	135217.170	1.0	182392.550	2.0
211.9123	24.00	-5.42	7927.470	2.0	95101.870	3.0
211.9135	26.00	-2.85	415.932	3.0	47590.070	4.0
211.9146	27.01	-3.11	18338.500	1.0	65512.400	0.0
211.9175	25.02	-1.34	86578.240	3.5	133751.500	3.5
211.9190	26.02	-3.15	135239.740	4.0	182412.650	4.0
211.9250	23.03	-3.74	218100.000	4.0	265271.600	3.0
211.9257	26.02	-3.43	139827.170	4.0	186998.600	4.0
211.9258	24.02	-1.02	71688.500	6.0	119039.900	5.0
211.9268	23.01	-3.61	19132.690	2.0	66303.880	3.0
211.9285	14.01	-4.50	79355.280	2.5	126526.100	1.5
211.9290	26.02	-3.15	66464.640	3.0	113635.340	4.0
211.9298	9.02	-4.81	444238.270	4.5	491408.790	3.5
211.9345	9.02	-3.06	444238.270	4.5	491407.750	4.5
211.9358	26.02	-3.21	135239.740	4.0	182408.910	3.0
211.9416	25.01	-3.21	43850.420	4.0	47016.300	3.0
211.9433	30.02	-1.65	238330.200	2.0	285503.700	1.0
211.9516	26.02	-3.27	135279.040	2.5	182444.700	3.0
211.9535	18.01	-4.43	163299.470	2.5	210464.710	2.5
211.9540	77.00	.20	0.000	0.0	47180.049	0.0
211.9595	24.02	-2.75	110505.000	6.0	151660.900	6.0
211.9642	25.01	-1.56	30679.240	5.0	77842.090	6.0
211.9674	25.02	.46	90746.060	5.5	137906.200	5.5
211.9681	27.02	-4.47	125421.600	4.5	172583.600	3.5
211.9681	27.02	-4.47	125421.600	4.5	172583.600	3.5
211.9681	27.02	-4.47	125421.600	4.5	172583.600	3.5
211.9688	26.01	-2.48	25981.650	3.5	73143.460	3.5
211.9744	26.02	-4.49	132564.710	5.0	179725.310	6.0
211.9752	18.01	-2.56	161089.310	.5	208249.740	1.5
211.9773	25.01	-.15	38901.800	4.0	66061.750	3.0
211.9802	27.02	-.75	83938.900	3.5	131098.200	4.5
211.9829	25.02	-2.23	90440.500	4.5	137599.200	3.5
211.9890	25.01	-3.09	47073.560	3.0	94230.900	2.5
211.9893	9.02	-3.92	444238.270	4.5	491395.560	5.5
211.9909	28.01	-3.50	73893.730	1.5	121050.660	2.5
211.9983	18.01	-1.25	147875.860	2.5	195031.120	2.5
212.0017	25.00	-3.42	0.000	2.5	47154.510	1.5
212.0036	30.02	-4.91	257796.000	5.0	304950.100	5.0
212.0036	30.02	-2.56	257796.000	5.0	304950.100	4.0
212.0053	23.03	.69	215957.700	3.0	263111.400	4.0
212.0082	23.02	-.96	98825.190	3.5	145978.270	2.5
212.0103	30.02	-3.34	257796.000	5.0	304946.600	6.0
212.0103	30.02	-1.24	257796.000	5.0	304946.600	5.0
212.0119	25.01	-2.19	31760.930	2.0	78913.170	2.0
212.0171	14.03	-.39	218266.860	.5	265417.950	.5
212.0216	23.02	-3.30	42267.400	2.5	89417.500	3.5
212.0220	27.02	-2.43	125227.000	3.5	172377.000	3.5
212.0248	26.02	-1.59	69788.190	1.0	116937.570	1.0
212.0272	28.01	-4.12	73893.730	1.5	121042.570	1.5
212.0330	18.01	-4.16	163299.470	2.5	210447.010	3.5
212.0337	28.02	-4.73	134334.900	3.0	181484.300	4.0
212.0369	24.02	-.70	49626.800	2.0	96773.500	1.0
212.0410	24.00	-3.44	7810.820	1.0	54956.590	1.0
212.0469	25.00	-3.25	17568.480	1.5	64712.940	2.5
212.0487	24.00	-7.30	8307.570	4.0	55451.640	3.0
212.0526	27.01	-4.43	17771.500	3.0	64914.710	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
212.0535	27.02	-4.05	77622.900	4.5	124765.900	5.5
212.0581	28.01	-4.60	67694.640	2.5	114836.630	3.5
212.0665	26.02	-3.75	135239.740	4.0	182379.860	5.0
212.0671	25.01	-1.38	44899.820	3.0	92039.800	2.0
212.0677	18.01	-4.24	143371.350	1.5	190511.190	2.5
212.0705	27.00	-1.52	1406.840	2.5	48546.070	1.5
212.0750	26.02	-1.77	69836.830	3.0	116975.050	2.0
212.0786	26.02	-2.67	90423.680	2.0	137561.100	1.0
212.0792	26.02	-2.08	69837.760	2.0	116975.050	2.0
212.0834	18.01	-3.07	149179.170	3.5	196315.510	2.5
212.0849	18.01	-2.71	143371.350	1.5	190507.360	1.5
212.0868	27.02	-3.11	83773.400	1.5	130909.000	1.5
212.0927	28.01	-3.32	68735.980	2.5	115670.280	2.5
212.0943	26.02	-2.97	139463.360	5.0	186597.300	6.0
212.0951	26.01	-3.59	26055.400	2.5	73189.160	1.5
212.0994	23.03	-3.16	217350.000	3.0	264482.800	2.0
212.1004	26.01	-3.13	37227.320	.5	84359.900	1.5
212.1048	30.02	-2.23	257796.000	5.0	304927.600	6.0
212.1098	26.01	-3.15	13904.870	.5	61035.370	.5
212.1108	26.00	-4.00	704.003	2.0	47834.260	3.0
212.1126	26.02	-2.01	135279.040	2.0	182408.910	3.0
212.1192	27.00	-4.47	3482.820	4.5	50611.220	3.0
212.1192	14.00	-4.14	223.157	2.0	47351.554	2.0
212.1215	27.02	-1.37	56373.800	2.5	103501.700	3.5
212.1224	25.00	-3.00	17282.000	3.5	64409.890	3.5
212.1249	26.00	-2.83	704.003	2.0	47831.132	2.0
212.1270	24.01	-3.30	30143.720	5.5	77270.400	4.5
212.1278	23.01	-7.81	2604.820	1.0	49731.320	2.0
212.1306	18.01	-1.86	149179.170	3.5	196305.040	3.5
212.1311	25.01	-3.95	32787.600	4.0	79913.350	4.0
212.1314	24.00	-9.47	0.000	3.0	47125.700	3.0
212.1367	25.01	-9.95	34761.810	5.0	81886.330	5.0
212.1381	29.02	-3.42	148662.900	2.5	195787.100	3.5
212.1387	28.00	-1.34	204.786	3.0	47328.850	2.0
212.1390	27.02	-3.92	79425.300	2.5	126549.300	3.5
212.1405	25.02	.06	85173.880	1.5	132297.550	2.5
212.1445	26.01	-4.33	31364.470	1.5	78487.250	1.5
212.1446	28.01	-3.46	53496.490	5.5	100619.260	4.5
212.1480	25.02	-4.14	148560.500	4.5	195682.500	5.5
212.1501	26.02	-4.95	151534.130	3.0	198655.660	3.0
212.1510	24.01	-2.46	19528.380	.5	66649.710	1.5
212.1523	26.01	-3.67	61527.590	6.5	108648.640	6.5
212.1529	26.02	-3.14	90423.680	2.0	137544.600	2.0
212.1536	23.01	-2.11	20617.050	2.0	67737.800	2.0
212.1542	18.01	-2.42	147875.860	2.5	194996.490	1.5
212.1566	28.01	-1.82	67880.160	2.5	115000.250	3.5
212.1590	74.01	1.68	3145.643	0.0	50280.103	0.0
212.1624	26.01	-3.49	31368.450	.5	78487.250	1.5
212.1638	26.02	-4.60	139764.480	2.0	186882.980	3.0
212.1659	26.02	-4.82	83138.230	5.0	130256.270	5.0
212.1667	26.02	-4.86	151537.800	4.0	198655.660	3.0
212.1705	25.03	-1.84	131462.500	5.0	178579.500	4.0
212.1766	28.01	-4.27	75721.680	5.5	122837.330	4.5
212.1774	25.00	-4.79	17568.480	1.5	64683.950	1.5
212.1783	25.02	-3.82	131701.690	1.5	178816.960	2.5
212.1804	23.01	-2.84	20622.990	3.0	67737.800	2.0
212.1827	26.02	-3.45	132079.910	3.0	179194.220	4.0
212.1828	25.02	-2.10	89307.220	5.5	136421.500	5.5
212.1863	26.02	-3.34	135279.040	2.0	182392.550	2.0
212.1865	24.01	-4.92	30156.940	3.5	77270.400	4.5
212.1904	26.02	-4.00	135739.470	6.0	182852.050	7.0
212.1922	24.00	-3.84	8095.210	3.0	55207.400	4.0
212.1922	27.02	-3.45	125690.500	3.5	172802.700	2.5
212.1941	22.00	-1.79	170.132	3.0	47281.900	3.0
212.1974	28.00	-2.15	2216.519	2.0	49327.560	3.0
212.1991	28.01	-1.48	53365.170	4.5	100475.620	3.5
212.1995	27.00	-3.60	3482.820	4.5	50593.800	4.5
212.2018	26.01	-3.42	25981.650	3.5	73091.700	4.5
212.2019	25.02	-8.88	69788.190	1.0	116898.220	2.0
212.2048	27.02	-3.26	83799.600	2.5	130909.000	1.5
212.2082	25.01	-1.37	47073.560	3.0	94182.200	3.0
212.2102	26.02	-4.12	132785.360	4.0	179893.560	5.0
212.2112	23.01	-2.64	0.000	0.0	47107.980	1.0
212.2174	26.02	-4.42	141002.990	4.0	188109.580	3.0
212.2180	26.00	-3.81	0.000	4.0	47106.463	4.0
212.2217	28.01	-3.25	71457.740	3.5	118563.390	3.5
212.2219	25.03	-2.56	130969.500	3.0	176075.100	3.0
212.2268	28.00	-2.48	1713.080	1.0	48817.600	1.0
212.2313	28.01	-2.51	54262.630	3.5	101366.140	2.5
212.2327	11.02	-3.92	444825.000	2.5	491928.200	3.5
212.2337	18.02	-.92	225147.930	2.0	272250.900	3.0
212.2352	26.01	-4.85	61527.590	6.5	108630.240	5.5
212.2368	26.02	-2.61	135316.420	5.0	182418.700	4.0
212.2404	24.02	-.80	71321.800	3.0	118423.300	2.0
212.2414	26.02	-3.01	92523.910	5.0	139625.170	4.0
212.2425	25.01	-3.71	34761.810	5.0	81862.840	4.0
212.2453	26.01	-2.47	15844.710	4.5	62945.120	3.5
212.2473	28.01	.41	75721.680	5.5	122821.630	5.5
212.2480	26.02	-4.40	69837.760	2.0	116937.570	1.0
212.2492	26.02	-3.76	89697.520	3.0	136797.050	3.0
212.2504	26.01	-4.04	31367.980	2.5	78487.250	1.5
212.2524	25.02	-3.48	131287.180	.5	178386.000	.5
212.2525	26.02	-3.91	132659.170	4.0	179757.980	4.0
212.2529	26.02	-4.47	132079.910	3.0	179178.620	3.0
212.2537	26.02	-2.34	73727.640	2.0	120826.170	2.0
212.2572	10.01	-3.30	281720.280	1.5	328818.050	2.5
212.2587	25.02	-2.46	86654.070	4.5	133751.500	3.5
212.2638	26.02	-2.36	89697.520	3.0	136793.820	2.0
212.2641	26.02	-2.93	135316.420	5.0	182412.650	4.0
212.2656	27.00	-2.75	3482.820	4.5	50578.730	3.5
212.2657	24.01	-2.96	19631.280	1.5	66727.160	2.5
212.2679	25.01	-3.38	35004.430	3.0	82099.820	4.0
212.2706	26.02	-3.85	83161.480	4.0	130256.270	5.0
212.2716	28.01	-1.63	54262.630	3.5	101357.200	4.5
212.2755	24.02	-1.26	49827.700	3.0	96921.400	2.0
212.2801	26.00	-1.86	0.000	4.0	47092.693	3.0
212.2867	25.01	-2.52	38720.200	6.0	85811.430	7.0
212.2870	25.02	-.31	84610.530	.5	131701.690	1.5
212.2871	28.01	-2.34	68735.980	2.5	115827.120	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
212.2946	23.01	-6.98	2808.760	3.0	49896.220	2.0
212.2967	26.02	-4.42	132659.170	4.0	179748.170	5.0
212.2980	29.01	-.00	26264.400	2.0	73353.120	2.0
212.2985	24.02	-2.71	111375.000	3.0	158463.600	3.0
212.2990	14.00	-1.44	6298.850	2.0	53587.334	1.0
212.3009	26.01	-3.39	26055.400	2.5	73143.480	3.5
212.3019	26.02	-2.42	139509.440	5.0	186597.300	6.0
212.3020	20.02	.78	277022.400	3.0	324110.240	4.0
212.3081	23.02	-2.90	42371.200	1.5	89457.670	2.5
212.3089	24.02	-1.50	49626.800	2.0	96713.100	3.0
212.3124	26.00	-2.31	6928.266	5.0	54013.780	5.0
212.3219	25.01	-1.40	34910.430	4.0	81993.850	4.0
212.3248	26.00	-5.93	7728.058	3.0	54810.820	4.0
212.3257	25.02	-.31	86654.070	4.5	133736.640	5.5
212.3264	26.02	-4.59	66522.950	2.0	113605.370	3.0
212.3294	28.01	-.13	54176.260	.5	101256.010	1.5
212.3333	23.01	-.98	339.210	4.0	47420.100	4.0
212.3362	13.00	-2.05	112.061	1.5	47192.300	2.5
212.3386	8.01	-1.96	211521.980	1.5	258601.700	1.5
212.3484	23.02	-3.26	98825.190	3.5	145902.730	4.5
212.3522	23.03	-1.45	217990.700	1.0	265067.400	2.0
212.3539	24.01	-3.42	20512.750	5.5	67589.060	6.5
212.3545	22.00	-1.62	386.874	4.0	47463.060	4.0
212.3553	30.02	-2.03	260613.100	5.0	307689.100	5.0
212.3553	30.02	-.22	260613.100	5.0	307689.100	6.0
212.3585	28.01	-2.20	68709.760	.5	115785.060	1.5
212.3587	26.02	-2.89	97041.380	3.0	144116.640	3.0
212.3587	18.01	-3.47	158167.710	1.5	205242.970	.5
212.3594	26.02	-.70	84369.920	2.0	131445.030	2.0
212.3599	24.02	-.18	70980.200	1.0	118055.200	1.0
212.3619	23.01	-1.71	106.630	2.0	47181.170	3.0
212.3628	26.02	-1.97	87901.870	3.0	134976.220	3.0
212.3658	26.02	-3.34	132104.940	2.0	179176.620	3.0
212.3663	22.01	-4.29	393.220	4.5	47466.800	3.5
212.3674	26.01	-3.30	25981.650	3.5	73054.970	2.5
212.3737	23.01	-4.39	36.050	1.0	47107.980	1.0
212.3759	26.02	-4.38	88663.870	4.0	135745.310	5.0
212.3773	25.02	-.91	97239.860	6.5	144311.000	5.5
212.3796	24.01	-2.89	30864.610	2.5	77935.240	2.5
212.3815	25.00	-3.89	17568.480	1.5	64636.680	.5
212.3815	27.01	-1.95	18338.500	1.0	65406.710	2.0
212.3829	28.01	-2.42	54176.260	.5	101246.160	.5
212.3838	27.02	-2.05	85517.300	5.5	132587.000	4.5
212.3840	76.00	.80	4113.534	0.0	51198.060	0.0
212.3881	28.01	-1.22	75721.680	5.5	122190.410	4.5
212.3919	24.02	-2.50	111375.000	3.0	158442.900	4.0
212.3964	28.02	-3.85	134415.400	4.0	181466.300	4.0
212.4005	30.02	-.30	260623.100	4.0	307689.100	5.0
212.4010	23.03	-1.61	217836.300	3.0	264902.200	3.0
212.4012	23.01	-2.17	36.050	1.0	47101.860	2.0
212.4029	24.00	-6.02	7927.470	2.0	54992.930	2.0
212.4054	27.02	-.84	78927.800	3.5	125992.700	2.5
212.4079	26.02	-2.36	93388.750	4.0	140453.100	3.0
212.4079	24.01	-1.75	38509.070	3.5	85573.420	3.5
212.4119	23.02	-3.64	44646.960	4.5	91710.430	3.5
212.4120	26.02	-2.19	135316.420	5.0	182379.860	5.0
212.4123	14.00	-0.00	6298.850	2.0	53362.240	3.0
212.4212	26.01	-4.79	61587.240	5.5	108648.640	6.5
212.4213	26.02	-3.00	69836.830	3.0	116898.220	2.0
212.4230	26.02	-2.00	90483.590	3.0	137544.600	2.0
212.4246	26.02	-2.16	93392.450	3.0	140453.100	3.0
212.4255	26.02	-2.65	69837.760	2.0	116898.220	2.0
212.4294	25.02	-4.29	148355.600	3.5	195415.200	4.5
212.4294	27.02	-2.77	91715.100	2.5	138774.700	2.5
212.4392	24.00	-3.87	8095.210	3.0	55152.630	2.0
212.4434	30.02	-4.36	235623.900	3.0	282680.400	4.0
212.4500	26.00	-4.61	6928.266	5.0	53983.300	5.0
212.4511	13.01	-1.97	95546.800	3.0	142601.600	3.0
212.4558	18.01	-3.52	158167.710	1.5	205221.470	1.5
212.4560	13.01	-1.66	95547.900	2.0	142601.600	3.0
212.4618	26.01	-4.95	36252.960	2.5	83305.370	3.5
212.4632	2.01	-1.59	390142.340	0.0	437209.314	0.0
212.4642	23.03	-1.05	217350.000	3.0	264401.900	4.0
212.4691	25.01	-2.98	38901.800	4.0	89592.600	3.0
212.4711	27.01	-3.61	22009.230	4.0	69059.590	3.0
212.4750	32.00	.46	7017.204	0.0	54081.565	0.0
212.4796	24.02	-8.12	0.000	3.0	47048.480	3.0
212.4806	28.00	-1.24	3409.925	2.0	50456.187	1.0
212.4841	24.00	-8.54	0.000	3.0	47047.470	2.0
212.4872	25.00	-3.42	17637.150	.5	64683.950	1.5
212.4881	28.02	-3.73	136812.700	2.0	183859.300	3.0
212.4923	23.01	-5.84	19112.930	4.0	66158.600	4.0
212.4962	26.02	-3.77	88694.670	5.0	135739.470	6.0
212.4971	26.02	-.99	97041.380	3.0	144085.970	4.0
212.4983	26.02	-.55	90483.590	3.0	137527.920	4.0
212.4984	23.01	-7.09	2687.010	2.0	49731.320	2.0
212.5026	28.01	-.65	66579.710	1.5	113623.100	.5
212.5043	26.01	-4.24	61587.240	5.5	108630.240	5.5
212.5080	23.02	-3.67	99941.200	3.5	146983.380	2.5
212.5087	25.02	-2.94	132297.550	2.5	179339.590	2.5
212.5090	27.00	-4.84	4142.660	3.5	51164.630	3.5
212.5096	29.01	.23	70841.300	3.0	117883.140	4.0
212.5100	23.02	-6.40	99804.570	2.5	146846.320	1.5
212.5102	26.02	-2.87	88663.870	4.0	135705.570	3.0
212.5117	28.01	-1.37	9330.040	3.5	56371.410	3.5
212.5144	25.01	-2.58	34761.810	5.0	81802.580	6.0
212.5150	26.02	-1.82	88694.670	5.0	135735.310	5.0
212.5154	24.01	-5.81	0.000	2.5	47040.540	2.5
212.5168	18.02	-.17	225147.930	2.0	272188.160	2.0
212.5171	26.02	-1.73	93412.930	2.0	140453.100	3.0
212.5210	41.01	1.70	2984.328	0.0	50038.501	0.0
212.5213	25.02	.54	97271.760	5.5	144311.000	5.5
212.5224	27.01	-3.29	0.000	4.0	47039.000	3.0
212.5248	29.01	-.72	71493.680	2.0	118332.150	2.0
212.5269	18.01	-2.98	160239.350	1.5	207277.350	1.5
212.5291	25.02	-1.99	89898.080	.5	136935.600	.5
212.5318	27.00	-1.47	1406.640	2.5	48443.760	2.5
212.5325	26.00	-2.43	415.932	3.0	47452.702	4.0
212.5361	26.02	-1.82	87901.870	3.0	134937.840	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
212.5419	26.01	-2.52	25981.650	3.5	73016.330	3.5
212.5440	77.00	.79	7017.204	0.0	54066.286	0.0
212.5443	7.01	-3.05	174212.030	2.0	221246.170	1.0
212.5496	18.02	-.91	225155.180	1.0	272188.160	2.0
212.5536	27.02	-1.52	85474.100	6.5	132506.200	5.5
212.5581	24.02	-2.44	50089.200	4.0	97120.300	3.0
212.5624	28.00	-1.63	0.000	4.0	47030.148	3.0
212.5671	24.00	-3.88	7927.470	2.0	54956.590	1.0
212.5676	23.03	-2.52	217990.700	1.0	265019.700	1.0
212.5700	18.01	-1.93	163506.450	3.5	105334.900	4.5
212.5704	27.00	-2.25	1809.330	1.5	48837.720	1.5
212.5743	8.01	-.42	185499.200	2.5	232526.700	1.5
212.5788	24.01	-4.28	31083.110	1.5	78109.640	1.5
212.5807	27.02	-3.23	83773.400	1.5	130799.500	.5
212.5852	27.01	-2.97	5204.500	1.0	52229.600	2.0
212.5905	28.01	-1.38	8393.900	4.5	55417.830	3.5
212.5944	23.01	-4.08	8640.210	2.0	55663.270	1.0
212.5970	30.02	-.96	257908.200	1.0	304930.700	2.0
212.5982	28.00	-2.52	1713.080	1.0	48735.308	2.0
212.5988	9.02	-4.67	444470.240	1.5	491492.100	2.5
212.6045	29.01	-.25	22846.970	2.0	69867.810	2.0
212.6053	24.01	-1.42	21822.860	2.5	68843.510	3.5
212.6053	18.01	-4.19	163506.450	3.5	210527.100	2.5
212.6104	27.00	-2.93	1809.330	1.5	48828.870	2.5
212.6144	25.02	.56	97239.860	6.5	144258.500	6.5
212.6154	24.01	-3.65	19631.280	1.5	66649.710	1.5
212.6198	26.01	-5.47	22409.820	.5	69427.270	.5
212.6200	22.00	-2.96	170.132	3.0	47187.540	2.0
212.6202	27.00	-3.82	4142.660	3.5	51160.030	2.5
212.6211	26.00	-1.72	0.000	4.0	47017.170	3.0
212.6285	25.01	-1.30	41182.530	7.0	88198.070	6.0
212.6379	26.02	-4.09	89783.590	4.0	136797.050	3.0
212.6517	26.02	-3.74	141002.990	4.0	188013.400	4.0
212.6523	24.01	-4.12	38563.150	4.5	85573.420	3.5
212.6526	27.02	-3.01	83789.300	.5	130799.500	.5
212.6540	41.01	1.53	3468.273	0.0	50493.017	0.0
212.6610	26.00	-2.29	0.000	4.0	47008.351	5.0
212.6610	25.02	-3.50	86051.500	2.5	133059.840	3.5
212.6630	24.02	-2.42	50089.200	4.0	97097.100	4.0
212.6630	27.02	-2.95	125369.100	2.5	172377.000	3.5
212.6634	28.01	-2.93	53601.190	1.5	100609.010	2.5
212.6644	25.01	-2.65	41190.470	6.0	88198.070	6.0
212.6664	18.01	-.89	147875.860	2.5	194883.000	3.5
212.6686	24.00	-3.64	6095.210	3.0	55101.870	3.0
212.6720	70.01	-.09	0.000	0.0	47020.764	0.0
212.6747	26.00	-5.53	7985.783	2.0	54991.110	1.0
212.6775	30.02	-.91	235623.900	3.0	282628.600	2.0
212.6789	24.02	-3.42	112371.200	2.0	159375.600	3.0
212.6804	26.00	-3.08	415.932	3.0	47420.000	2.0
212.6813	20.02	-2.18	243930.440	1.0	290934.300	0.0
212.6816	26.01	-4.98	38458.990	4.5	85462.780	3.5
212.6835	28.01	.49	51557.850	3.5	98561.220	2.5
212.6865	9.02	-4.97	444489.400	2.5	491492.100	3.5
212.6883	26.02	-4.47	132659.170	4.0	179661.480	3.0
212.6918	25.00	-4.34	17637.150	.5	64638.680	.5
212.6927	23.01	-1.68	106.630	2.0	47107.980	1.0
212.7007	76.01	-2.13	26055.400	2.5	73054.970	2.5
212.7018	26.02	-2.22	90423.680	2.0	137423.000	3.0
212.7050	18.01	-2.30	143107.600	2.5	190106.230	1.5
212.7089	9.02	-2.65	431343.860	3.5	460141.630	2.5
212.7117	27.01	-1.94	18031.500	2.0	65028.650	1.0
212.7160	25.02	.36	90440.500	4.5	137436.700	4.5
212.7160	19.02	-2.18	190916.000	1.5	237912.200	1.5
212.7203	23.01	-3.51	106.630	2.0	47101.880	2.0
212.7271	25.01	-3.92	41204.340	5.0	88198.070	6.0
212.7278	24.01	-1.88	20512.750	5.5	67506.340	5.5
212.7348	24.01	-1.52	31117.590	2.5	78109.640	1.5
212.7358	23.01	-2.15	36.050	1.0	47027.880	0.0
212.7371	26.02	-3.83	139463.360	5.0	186454.890	5.0
212.7390	51.00	-.07	0.000	0.0	47005.956	0.0
212.7392	28.01	-1.29	68965.650	1.5	115956.710	2.5
212.7412	25.02	-2.35	89898.080	.5	136888.700	1.5
212.7426	29.01	-2.51	71493.680	2.0	118484.000	3.0
212.7455	25.02	-2.41	88880.080	2.5	135869.760	3.5
212.7467	25.01	-2.38	35004.430	3.0	81993.850	4.0
212.7473	26.00	-2.62	704.003	2.0	47693.289	3.0
212.7473	14.03	-.08	218428.670	1.5	265417.950	.5
212.7477	28.01	-4.31	67880.160	2.5	114869.350	1.5
212.7490	27.02	-3.92	85517.300	5.5	132506.200	5.5
212.7517	19.02	-3.39	242526.700	.5	289515.000	1.5
212.7520	77.00	.50	2823.013	0.0	49826.096	0.0
212.7526	24.01	-2.37	20024.160	3.5	67012.280	2.5
212.7582	10.01	-4.48	291801.880	1.5	338788.760	.5
212.7588	25.02	-.15	97271.760	5.5	144258.500	6.5
212.7593	25.01	-2.52	44315.170	6.0	91301.800	5.0
212.7595	26.01	-2.78	27620.390	2.5	74606.970	2.5
212.7599	24.01	-3.53	20519.850	4.5	67506.340	5.5
212.7643	26.02	-3.27	92523.910	5.0	139509.440	5.0
212.7648	18.01	-2.25	147875.860	2.5	194861.270	2.5
212.7652	27.01	-2.41	18031.500	2.0	65016.830	2.0
212.7679	28.01	-1.07	54262.630	3.5	101247.370	2.5
212.7774	28.01	-.96	24788.200	1.5	71770.830	2.5
212.7837	25.02	-2.93	88880.080	2.5	135861.320	1.5
212.7875	24.02	-2.87	111643.300	4.0	158623.700	4.0
212.7884	30.02	-.67	257962.500	2.0	304942.700	3.0
212.7898	18.02	-2.06	225147.930	2.0	272127.820	1.0
212.7940	77.00	.62	0.000	0.0	46993.806	0.0
212.7944	25.02	-.87	88880.080	2.5	135858.960	2.5
212.7969	26.01	-.97	30764.460	3.5	77742.780	2.5
212.8005	26.02	-1.63	142047.000	4.0	189024.530	5.0
212.8025	24.02	-4.24	112398.500	4.0	159375.600	3.0
212.8026	26.02	-2.89	73849.100	1.0	120826.170	2.0
212.8047	11.02	-.40	417415.500	1.5	464392.100	2.5
212.8079	25.01	-2.53	34910.430	4.0	81886.330	5.0
212.8092	10.01	-2.33	281720.280	1.5	328695.900	2.5
212.8093	10.01	-4.26	281720.280	1.5	328695.900	2.5
212.8103	26.02	-.457	132785.360	4.0	179760.720	3.0
212.8227	18.02	-.60	225155.180	1.0	272127.820	1.0
212.8228	26.02	-3.41	132785.360	4.0	179757.980	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
212.8243	23.01	-1.63	208.890	3.0	47181.170	3.0
212.8272	24.01	-3.71	30298.770	5.5	77270.400	4.5
212.8287	18.01	-2.88	163506.450	3.5	210477.770	3.5
212.8371	26.02	-3.19	73727.640	2.0	120697.100	1.0
212.8371	26.01	-2.85	22637.190	4.5	69606.640	3.5
212.8409	28.00	-3.33	2216.519	2.0	49185.146	2.0
212.8428	30.02	-1.15	257962.500	2.0	304930.700	2.0
212.8428	30.02	-2.30	257962.500	2.0	304930.700	3.0
212.8451	24.00	-4.77	0.000	3.0	46967.700	2.0
212.8486	28.01	-1.41	53365.170	4.5	100332.090	4.5
212.8513	14.01	-1.45	79338.760	1.5	126305.080	2.5
212.8519	17.01	-4.62	112608.000	1.0	159574.200	2.0
212.8562	25.01	-3.23	46903.260	2.0	93868.500	1.0
212.8564	29.02	-2.26	78779.400	1.5	125744.600	1.5
212.8578	28.01	-.80	10115.660	2.5	57080.550	3.5
212.8580	26.02	-2.77	142047.000	4.0	189011.840	4.0
212.8610	78.00	.29	725.918	0.0	47704.932	0.0
212.8644	28.01	-4.67	68156.570	1.5	115120.000	2.5
212.8656	18.01	-2.65	161048.640	1.5	208011.810	1.5
212.8672	26.02	-4.10	132785.360	4.0	179748.170	5.0
212.8750	20.01	-3.09	13650.190	1.5	60611.280	1.5
212.8757	26.01	-3.57	26055.400	2.5	73016.330	3.5
212.8877	23.02	-1.09	99181.500	1.5	146139.800	2.5
212.8879	18.01	-4.76	163506.450	3.5	210464.710	2.5
212.8883	25.00	-3.16	17451.520	2.5	64409.690	3.5
212.8896	23.01	-7.50	339.210	4.0	47297.080	5.0
212.8958	26.02	-2.67	98661.880	1.0	145618.390	2.0
212.8958	27.02	-1.83	79425.300	2.5	126381.800	1.5
212.9008	27.02	-3.04	125421.600	4.5	172377.000	3.5
212.9065	28.01	-3.14	68131.210	3.5	115085.360	3.5
212.9080	26.02	-4.28	132262.660	6.0	179216.470	6.0
212.9103	24.02	-1.16	111375.000	3.0	158328.300	2.0
212.9139	28.01	-1.74	23796.180	1.5	70746.700	.5
212.9144	25.01	-4.10	34910.430	4.0	81862.840	4.0
212.9184	28.01	-2.15	68156.570	1.5	115108.090	2.5
212.9188	20.02	-.13	281139.550	1.0	326090.990	2.0
212.9190	27.01	-3.14	4560.800	3.0	51512.200	3.0
212.9230	24.02	-3.87	50408.200	5.0	97358.700	4.0
212.9239	28.01	-1.93	56075.260	2.5	103025.580	2.5
212.9246	28.01	-1.39	68131.210	3.5	115081.360	4.5
212.9263	14.01	-1.29	79355.280	2.5	126305.080	3.5
212.9263	14.01	-2.60	79355.280	2.5	126305.080	3.5
212.9267	20.02	-3.67	324110.240	4.0	371059.950	2.0
212.9406	9.02	-3.72	413195.000	2.5	460141.630	2.5
212.9424	18.01	-3.99	147875.860	2.5	194822.160	3.5
212.9459	26.02	-3.24	139509.440	5.0	186454.890	5.0
212.9468	23.01	-1.67	106.630	2.0	47051.890	3.0
212.9484	26.02	-4.48	132262.660	6.0	179207.570	5.0
212.9508	27.00	-1.74	1809.330	1.5	46753.720	1.5
212.9520	28.01	-.66	53365.170	4.5	100304.290	5.5
212.9545	25.01	-4.08	32856.950	3.0	79800.520	4.0
212.9571	26.00	-3.54	868.132	1.0	47831.132	2.0
212.9663	13.00	-2.17	0.000	5.5	46940.970	1.5
212.9682	18.01	-3.86	163506.450	3.5	210467.010	3.5
212.9686	26.02	-1.06	93512.640	4.0	140453.100	3.0
212.9706	28.01	-4.38	72375.420	1.5	119315.140	2.5
212.9714	18.01	-3.01	149179.170	3.5	196119.020	3.5
212.9732	26.02	-1.69	92523.910	5.0	139363.360	5.0
212.9734	26.02	-2.77	90483.590	3.0	137423.000	3.0
212.9745	29.01	-2.30	69704.800	4.0	116643.960	3.0
212.9769	27.00	-3.31	5075.830	1.5	52014.450	1.5
212.9809	18.01	-1.91	142717.020	3.5	186954.780	2.5
212.9837	24.01	-5.12	21822.860	2.5	68760.000	3.5
212.9838	28.01	-2.06	75149.480	4.5	122086.580	3.5
212.9885	24.01	-.76	20512.750	5.5	67448.820	4.5
212.9923	24.01	-2.97	30143.720	5.0	77078.960	5.5
212.9952	28.00	-1.62	204.786	3.0	47139.392	2.0
212.9957	23.03	-1.26	100200.700	2.0	147135.200	2.0
213.0067	18.01	-3.59	163506.450	3.5	210438.500	4.5
213.0068	29.01	-.57	68730.720	4.0	115662.770	4.0
213.0109	25.02	-4.17	132297.550	2.5	179226.690	1.5
213.0138	24.01	-1.24	20218.330	3.5	67448.820	4.5
213.0152	22.01	-2.26	9395.760	1.5	56325.940	2.5
213.0162	28.01	-1.09	75917.630	3.5	122847.600	3.5
213.0179	7.01	-1.05	174212.030	2.0	221141.610	3.0
213.0199	24.01	-1.67	19798.010	2.5	66727.160	2.5
213.0207	24.01	-.14	20519.850	4.5	67448.820	4.5
213.0215	24.01	-2.25	30150.160	6.5	77078.960	5.5
213.0254	26.01	-1.76	13474.430	2.5	60402.380	2.5
213.0273	27.00	-1.83	1406.840	2.5	46334.370	1.5
213.0339	23.02	-3.64	42267.400	2.5	89193.470	1.5
213.0406	26.00	-2.05	7376.762	4.0	54301.360	4.0
213.0406	26.00	-4.71	7376.762	4.0	54301.360	4.0
213.0422	26.02	-1.97	136532.450	2.0	183456.690	3.0
213.0425	23.01	-.84	20980.920	2.0	67905.100	3.0
213.0426	18.01	-.61	149179.170	3.5	196103.310	4.5
213.0430	26.00	-.87	6928.266	5.0	53852.330	4.0
213.0442	28.02	-4.77	83033.600	2.0	129957.600	1.0
213.0498	23.01	-7.19	2808.760	3.0	49731.320	2.0
213.0501	18.01	-2.10	161089.310	5.5	208011.810	1.5
213.0546	26.01	-.81	26170.190	5.5	73091.700	4.5
213.0552	28.01	-1.86	71457.740	3.5	118379.110	2.5
213.0591	18.02	-4.85	225147.930	2.0	272066.450	1.0
213.0592	25.02	.26	86051.500	2.5	132971.990	3.5
213.0610	28.01	-4.12	83033.600	2.0	129953.900	3.0
213.0628	28.02	.11	75917.630	3.5	122837.330	4.5
213.0642	9.02	-4.79	444489.400	2.5	491408.790	3.5
213.0762	9.02	-4.16	444475.350	2.5	491492.100	2.5
213.0801	25.01	-2.00	38720.200	6.0	85636.100	6.0
213.0830	26.02	-1.72	89697.520	3.0	136612.780	4.0
213.0832	28.01	-2.70	77736.790	4.5	124652.000	4.5
213.0845	23.01	-6.19	2808.760	3.0	49723.680	4.0
213.0920	18.02	-2.89	225155.180	1.0	272066.450	1.0
213.0963	18.01	-2.67	157673.320	2.5	204585.640	2.5
213.1037	18.01	-4.06	149179.170	3.5	196089.870	2.5
213.1042	28.01	-1.15	23796.180	1.5	70706.770	1.5
213.1054	27.00	-1.74	1406.840	2.5	48317.170	3.5
213.1096	28.01	.60	51557.850	3.5	98467.250	3.5
213.1096	24.02	-1.91	112466.200	3.0	159375.600	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
213.1134	26.02	-4.04	142047.000	4.0	188955.560	3.0	213.3862	10.01	-2.69	281720.280	1.5	328568.890	1.5
213.1180	41.01	1.64	2581.041	0.0	49503.403	0.0	213.3863	10.01	-3.63	281720.280	1.5	328568.880	1.5
213.1244	29.01	-0.97	70841.300	3.0	117747.450	3.0	213.3876	18.02	0.06	225402.590	3.0	272250.900	3.0
213.1262	28.01	-1.56	8393.900	4.5	55299.650	4.5	213.3890	26.02	-2.81	73849.100	1.0	120697.100	1.0
213.1272	24.01	-6.51	0.000	2.5	46905.520	1.5	213.3916	23.01	-8.65	208.890	3.0	47056.320	4.0
213.1296	25.03	-1.96	131170.100	4.0	178075.100	3.0	213.3951	20.02	0.20	278621.010	1.0	325467.670	2.0
213.1313	28.01	-2.42	68965.650	1.5	115870.280	2.5	213.3954	26.01	-2.07	25805.320	4.5	72651.910	3.5
213.1358	26.01	-2.90	16369.390	3.5	63273.030	2.5	213.3965	21.01	-1.16	29742.120	1.0	76588.480	2.0
213.1390	22.02	-1.30	83116.580	3.0	130019.500	3.0	213.3970	25.02	-4.69	86051.500	2.5	132897.740	2.5
213.1401	27.02	-4.28	85474.100	6.5	132376.800	6.5	213.4012	26.01	-1.21	25805.320	4.5	72650.630	4.5
213.1472	29.00	-2.96	0.000	2.5	46901.130	2.5	213.4049	12.02	-2.97	431930.000	1.0	478374.500	1.0
213.1505	20.01	-2.13	13710.880	2.5	60611.280	1.5	213.4055	26.02	-3.49	136612.780	4.0	183457.150	4.0
213.1531	24.00	-4.28	8307.570	4.0	55207.400	4.0	213.4076	26.02	-4.09	136612.780	4.0	183456.890	3.0
213.1560	24.01	-4.74	33521.230	3.5	80420.430	2.5	213.4077	23.01	-1.26	36.050	1.0	46879.940	2.0
213.1569	11.05	-2.24	872577.000	1.0	919476.000	2.0	213.4096	9.02	-4.90	444552.080	3.5	491395.560	4.5
213.1627	24.00	-4.15	8095.210	3.0	54992.930	2.0	213.4117	23.01	-0.69	208.890	3.0	47051.890	3.0
213.1705	27.02	-2.39	56794.800	1.5	103690.800	5	213.4165	23.01	-1.15	339.210	4.0	47181.170	3.0
213.1749	22.00	-3.11	386.874	4.0	47281.900	3.0	213.4215	24.01	-0.24	20512.750	5.5	67353.600	4.5
213.1755	24.02	-1.33	49591.000	1.0	96385.900	2.0	213.4244	26.01	-3.23	22610.330	3.5	69650.540	2.5
213.1773	28.02	-3.02	136964.800	3.0	183859.300	3.0	213.4287	28.01	-0.68	23796.180	1.5	70645.460	2.5
213.1837	27.00	-4.39	3482.820	4.5	50375.910	5.5	213.4323	29.01	0.78	68730.720	4.0	115569.200	5.0
213.1837	27.02	-3.33	125690.500	3.5	172583.600	3.5	213.4369	29.01	-1.89	26264.400	2.0	73101.870	1.0
213.1837	27.02	-3.33	125690.500	3.5	172583.600	3.5	213.4374	28.01	-0.52	66571.340	2.5	113408.710	1.5
213.1837	27.02	-3.62	125690.500	3.5	172583.600	3.5	213.4404	23.01	-3.80	23391.090	5.0	70227.800	5.0
213.1842	23.01	-1.20	208.890	3.0	47101.680	2.0	213.4418	26.00	-7.16	8154.713	1.0	54991.110	1.0
213.1860	17.02	-3.02	201765.100	2.5	248657.700	2.5	213.4438	28.01	-0.22	66571.340	2.5	113407.310	2.5
213.1863	26.01	-4.53	22409.820	5	69302.350	1.5	213.4455	28.01	-4.27	53496.490	5.5	100332.090	4.5
213.1879	26.02	-2.80	134937.840	2.0	181830.020	3.0	213.4470	24.01	-1.28	20518.330	3.5	67353.600	4.5
213.1903	25.02	-2.85	89052.440	3.5	135944.080	4.5	213.4485	26.02	-4.41	89697.520	3.0	136532.450	2.0
213.1941	26.02	-2.19	134937.840	2.0	181828.660	2.0	213.4502	27.01	-1.83	22009.230	4.0	68843.800	4.0
213.1953	26.02	-1.64	88663.870	4.0	135554.410	4.0	213.4539	24.01	-0.31	20519.850	4.5	67353.600	4.5
213.1964	29.02	-3.21	148662.900	2.5	195553.200	2.5	213.4553	9.02	-4.12	444575.350	2.5	491406.790	3.5
213.1965	26.02	-3.80	135554.410	4.0	182444.700	3.0	213.4572	26.01	-2.97	25428.800	5.5	72261.830	5.5
213.2014	26.02	-2.04	89907.850	4.0	136797.050	3.0	213.4581	25.01	-0.68	38901.800	4.0	85734.620	3.0
213.2018	26.00	-0.60	0.000	4.0	46889.126	4.0	213.4618	26.01	-4.34	25787.600	1.5	72619.610	2.5
213.2019	24.02	-1.79	71166.100	2.0	118055.200	1.0	213.4628	24.01	-0.10	20512.620	2.5	67344.420	2.5
213.2022	8.01	-0.98	211712.660	2.5	258601.700	1.5	213.4641	26.00	-4.79	7728.058	3.0	54559.560	3.0
213.2096	26.02	-2.04	88694.670	5.0	135582.080	6.0	213.4672	24.01	-4.49	30156.940	3.5	76981.780	2.5
213.2132	8.01	-1.22	211521.980	1.5	258408.600	5	213.4718	25.02	-0.77	88880.080	2.5	135709.900	2.5
213.2142	25.01	-3.06	62587.500	3.0	109473.900	4.0	213.4723	26.02	-3.03	139625.170	4.0	186454.890	5.0
213.2187	24.02	-2.92	49827.700	3.0	96713.100	3.0	213.4734	13.00	-1.91	112.061	1.5	46941.500	2.5
213.2187	22.01	-2.36	9363.710	5	56249.110	1.5	213.4742	25.02	-3.65	148206.900	5.5	195036.200	6.5
213.2205	24.03	-2.85	127218.000	3.5	174103.000	2.5	213.4742	25.02	-3.65	148206.900	5.5	195036.200	6.5
213.2261	23.01	-2.09	19112.930	4.0	65996.700	3.0	213.4745	9.02	-3.88	444578.510	4.5	491407.750	4.5
213.2287	27.01	-0.22	18031.500	2.0	64914.710	2.0	213.4747	26.02	-2.78	89783.590	4.0	136812.780	4.0
213.2304	20.01	-2.42	13650.190	1.5	60533.020	5	213.4755	28.01	-0.29	66579.710	1.5	113408.710	1.5
213.2320	26.01	-3.36	68709.760	5	115592.250	1.5	213.4760	13.00	-2.87	112.061	1.5	46940.970	1.5
213.2342	28.01	-1.19	54262.630	3.5	101144.630	3.5	213.4807	26.02	-2.22	70694.030	5.0	117521.910	4.0
213.2367	23.01	-6.54	2687.010	2.0	49568.450	3.0	213.4819	28.01	-0.82	66579.710	1.5	113407.310	2.5
213.2379	24.01	-1.09	20512.620	2.5	67393.800	3.5	213.4830	22.01	-2.30	9395.760	1.5	56223.133	5
213.2472	29.01	-2.04	88605.160	1.0	135484.300	0.0	213.4858	24.01	-2.46	19528.380	5	66355.130	1.5
213.2473	26.01	-2.40	31811.870	2.5	78690.980	2.5	213.4862	26.02	-0.50	83429.610	6.0	130256.270	5.0
213.2478	28.02	-3.06	83033.800	2.0	129912.600	2.0	213.4865	27.02	-0.79	82920.700	3.5	129747.300	2.5
213.2496	24.00	-4.46	0.000	3.0	46878.610	3.0	213.4888	24.01	-1.48	20518.330	3.5	67344.420	2.5
213.2535	26.01	-2.09	27620.390	2.5	74498.150	1.5	213.4917	26.02	-2.63	135554.410	4.0	182379.860	5.0
213.2609	26.02	-3.76	132785.360	4.0	179661.480	3.0	213.4921	28.00	-1.10	204.786	3.0	47030.148	3.0
213.2639	24.01	-0.03	20518.330	3.5	67393.600	3.5	213.4944	18.01	-2.09	172335.520	2.5	219160.400	2.5
213.2675	24.01	-2.69	20512.620	2.5	67387.300	2.5	213.4947	18.01	-2.32	143371.350	1.5	190196.160	5
213.2688	30.02	-1.95	258075.700	3.0	304950.100	4.0	213.5007	26.02	-4.03	142855.590	4.0	189679.070	3.0
213.2708	24.01	-2.39	20519.850	4.5	67393.600	3.5	213.5012	24.01	-2.06	39684.000	3.5	86507.380	2.5
213.2761	28.01	-1.40	75917.630	3.5	122790.410	4.5	213.5049	20.02	-1.92	281139.550	1.0	327962.110	1.0
213.2763	27.00	-2.87	0.000	4.5	46872.740	3.5	213.5052	27.02	-4.93	125003.300	2.5	171825.800	1.5
213.2784	26.00	-4.81	7728.058	3.0	54600.350	3.0	213.5062	23.02	-2.65	42371.200	1.5	89193.470	1.5
213.2876	25.01	-3.48	34910.430	4.0	81780.700	3.0	213.5094	24.01	-2.27	20512.620	2.5	67334.200	3.5
213.2881	24.01	-4.21	33418.110	2.5	80288.250	1.5	213.5126	28.01	-0.29	52738.450	2.5	99559.330	2.5
213.2911	26.02	-4.92	139509.440	5.0	186378.940	4.0	213.5135	26.01	-3.53	38858.960	2.5	56779.640	2.5
213.2934	9.02	-3.84	444623.120	3.5	491492.100	3.5	213.5152	24.02	-1.03	111643.300	4.0	158463.600	3.0
213.2935	24.01	-1.01	20518.330	3.5	67387.300	2.5	213.5164	26.02	-3.25	135990.620	4.0	182810.660	5.0
213.3011	24.01	-0.96	20512.620	2.5	67379.920	1.5	213.5211	25.01	-0.68	43131.400	2.0	89950.400	3.0
213.3024	30.02	-0.57	258075.700	3.0	304942.700	4.0	213.5234	26.02	-1.92	136612.780	4.0	183431.280	5.0
213.3024	30.02	-1.60	258075.700	3.0	304942.700	3.0	213.5273	24.01	-1.39	31117.590	2.5	77935.240	2.5
213.3051	23.02	0.33	63315.050	3.5	110181.470	2.5	213.5276	26.01	-2.46	15844.710	4.5	62662.300	5.5
213.3148	26.02	-1.42	135554.410	4.0	182418.700	4.0	213.5288	25.02	-1.17	89052.440	3.5	135869.760	3.5
213.3160	23.01	-4.17	19132.690	2.0	65996.700	3.0	213.5300	9.02	-3.97	444578.510	4.5	491395.560	5.5
213.3184	27.02	-2.64	126987.600	1.5	173851.100	5	213.5328	8.01	-4.46	208346.170	5	255162.600	5
213.3184	27.02	-2.64	126987.600	1.5	173851.100	5	213.5330	26.02	-2.69	88923.070	6.0	135739.470	6.0
213.3206	27.02	-2.26	83938.900	3.5	130801.900	4.5	213.5333	23.02	-1.62	109854.870	3.5	156671.200	2.5
213.3243	27.01	-0.72	25147.200	4.0	72009.400	4.0	213.5345	28.00	-1.29	2216.519			

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
213.6072	28.01	-3.17	54557.050	4.5	101357.200	4.5
213.6097	24.02	-1.59	111643.300	4.0	158442.900	4.0
213.6129	27.02	-1.57	56794.800	1.5	103593.700	2.5
213.6167	15.00	-2.25	11376.400	2.5	58174.450	1.5
213.6220	26.02	-1.46	70725.010	3.0	117521.910	4.0
213.6226	23.02	-1.59	99181.500	1.5	145978.270	2.5
213.6230	25.01	-2.03	36274.290	2.0	83070.970	2.0
213.6247	26.01	-5.71	22810.330	3.5	69606.640	3.5
213.6319	8.01	-3.74	208346.170	.5	255140.900	1.5
213.6331	26.02	-4.96	132785.360	4.0	179579.830	5.0
213.6338	23.03	.06	217108.000	2.0	263902.300	3.0
213.6339	24.00	-4.34	8307.570	4.0	55101.870	3.0
213.6344	26.00	-7.17	6928.266	5.0	53722.440	5.0
213.6371	26.02	-6.60	76956.790	3.0	123750.390	3.0
213.6378	18.01	-4.41	158428.030	.5	205221.470	1.5
213.6391	26.02	-2.91	70728.750	4.0	117521.910	4.0
213.6402	14.01	.05	108779.000	1.5	155571.900	2.5
213.6462	25.01	-2.60	41204.340	5.0	87995.500	5.0
213.6494	27.01	-3.70	1597.200	2.0	48388.100	2.0
213.6498	22.01	-3.35	12676.990	4.5	59467.810	3.5
213.6504	26.01	-1.02	26352.800	4.5	73143.480	3.5
213.6571	14.01	.20	108820.900	2.5	155610.100	3.5
213.6621	28.01	-1.36	68154.310	1.5	114942.420	1.5
213.6709	27.02	-1.39	82920.700	3.5	129706.900	3.5
213.6737	18.02	-2.96	225402.590	3.0	272188.160	2.0
213.6795	17.01	-3.39	131754.800	1.0	178539.100	2.0
213.6840	20.02	-1.53	281139.550	1.0	327922.870	2.0
213.6855	28.02	-3.28	7841.400	2.0	144624.400	1.0
213.6857	23.02	-.80	99440.100	2.5	146223.050	3.5
213.6943	26.00	-2.20	415.932	3.0	47197.000	2.0
213.6979	25.01	-2.18	44521.520	4.0	91301.800	5.0
213.7005	26.02	-1.65	69695.730	4.0	116475.440	3.0
213.7042	30.02	-.99	258171.200	5.0	304950.100	5.0
213.7042	30.02	-2.73	258171.200	5.0	304950.100	4.0
213.7110	76.00	1.24	4113.534	0.0	50905.697	0.0
213.7111	30.02	-.28	258171.200	5.0	304948.600	6.0
213.7111	30.02	-2.12	258171.200	5.0	304948.600	5.0
213.7161	27.01	-3.49	18338.500	1.0	65114.800	0.0
213.7162	25.01	-1.84	35004.430	3.0	81780.700	3.0
213.7213	26.02	-3.80	135705.570	3.0	182480.720	2.0
213.7286	29.01	-2.38	88362.030	2.0	135135.600	1.0
213.7297	23.01	-.85	106.630	2.0	46879.940	2.0
213.7304	26.02	-1.92	84671.870	3.0	131445.030	2.0
213.7327	26.01	-4.03	49506.990	1.5	96279.650	2.5
213.7337	9.02	-4.71	444623.120	3.5	491395.560	4.5
213.7361	25.01	-2.74	38901.800	4.0	85673.720	4.0
213.7366	30.02	-.40	258178.300	4.0	304950.100	5.0
213.7366	30.02	-2.04	258178.300	4.0	304950.100	4.0
213.7372	26.02	-.88	69695.730	4.0	116467.410	4.0
213.7380	30.02	-2.14	258171.200	5.0	304942.700	4.0
213.7398	17.01	-4.76	131768.000	2.0	178539.100	2.0
213.7415	6.01	-1.08	131724.370	.5	178495.110	1.5
213.7434	8.01	-3.71	208392.270	1.5	255162.600	.5
213.7462	24.02	-.93	111854.000	5.0	158623.700	4.0
213.7507	24.01	-2.17	39742.360	2.5	86511.080	1.5
213.7611	24.01	-4.64	31168.780	3.5	77935.240	2.5
213.7633	25.01	-2.63	33147.390	5.0	79913.350	4.0
213.7676	24.01	-2.93	39742.360	2.5	86507.380	2.5
213.7697	21.01	-.68	29823.920	2.0	76588.480	2.0
213.7705	30.02	-.95	258178.300	4.0	304942.700	4.0
213.7705	30.02	-2.49	258178.300	4.0	304942.700	3.0
213.7745	26.01	-3.17	862.630	1.5	47626.140	.5
213.7764	23.03	.27	217350.000	3.0	264113.100	4.0
213.7764	17.02	-4.13	201765.100	2.5	248528.200	1.5
213.7782	27.02	-1.22	78927.800	3.5	125690.500	3.5
213.7794	27.00	-1.04	1809.330	1.5	48571.770	.5
213.7854	26.02	-4.22	73935.960	0.0	120697.100	1.0
213.7879	24.01	-2.37	21822.860	2.5	68583.440	2.5
213.7897	6.01	-.83	131735.520	1.5	178495.110	2.5
213.7908	27.00	-4.31	4142.660	3.5	50902.610	4.5
213.7920	23.01	-7.18	2808.760	3.0	49568.450	3.0
213.7925	6.01	-1.78	131735.520	1.5	178495.110	1.5
213.7947	24.02	-2.07	49626.800	2.0	96385.900	2.0
213.7952	10.03	-.46	532978.000	1.5	579737.000	.5
213.7969	24.01	-1.98	21824.820	1.5	68583.440	2.5
213.7975	24.01	-.99	31351.150	2.5	78109.640	1.5
213.8029	22.02	-2.85	83116.580	3.0	129873.900	2.0
213.8049	23.01	-1.58	20980.920	2.0	67737.600	2.0
213.8049	26.01	-1.85	20516.980	2.5	67273.860	1.5
213.8071	30.02	-4.12	258171.200	5.0	304927.600	6.0
213.8076	28.01	-2.70	10663.890	1.5	57420.160	2.5
213.8114	23.01	-8.14	2968.220	4.0	49723.680	4.0
213.8139	28.01	-.23	53634.620	1.5	100389.520	2.5
213.8153	23.01	-1.13	0.000	0.0	46754.590	1.0
213.8191	26.02	-3.55	139625.170	4.0	186378.940	4.0
213.8244	23.01	-7.54	19132.690	2.0	65885.300	2.0
213.8253	30.02	-2.02	258178.300	4.0	304930.700	3.0
213.8318	14.01	-1.10	108820.900	2.5	155571.900	2.5
213.8384	26.01	-2.99	31387.980	2.5	78137.530	3.5
213.8406	25.01	-3.49	34910.430	4.0	81659.500	3.0
213.8414	23.02	-1.28	99073.230	.5	154822.110	1.5
213.8426	8.01	-4.33	208392.270	1.5	255140.900	1.5
213.8529	25.01	-2.52	43850.420	2.0	90596.800	2.0
213.8533	29.00	-.17	11211.395	0.0	57972.422	0.0
213.8560	30.00	1.53	0.000	0.0	46760.437	0.0
213.8582	28.01	-.96	9330.040	3.5	56075.660	2.5
213.8584	18.02	-1.74	196679.800	3.0	243424.970	3.0
213.8593	26.00	-5.30	0.000	4.0	46744.975	3.0
213.8610	28.02	-3.03	86646.200	2.0	133390.800	3.0
213.8642	18.01	-3.83	157673.320	2.5	204417.280	1.5
213.8653	28.01	-1.95	68131.210	3.5	114874.830	2.5
213.8656	26.02	-4.95	141399.040	2.0	188142.640	2.0
213.8803	26.02	-3.25	76956.790	3.0	123697.180	2.0
213.8849	25.02	-1.16	89204.690	4.5	135944.080	4.5
213.8861	26.02	-3.35	135705.570	3.0	182444.700	3.0
213.8871	26.01	-2.43	26352.800	4.5	73091.700	4.5
213.8880	18.01	-1.06	155043.070	2.5	201781.790	2.5
213.8894	27.02	-2.28	126870.900	2.5	173609.300	1.5
213.8894	27.02	-2.28	126870.900	2.5	173609.300	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
213.8894	27.02	-4.12	126870.900	2.5	173609.300	1.5
213.8957	26.01	-2.44	25787.600	1.5	72524.620	1.5
213.8970	27.00	-1.69	1809.330	1.5	48546.070	1.5
213.8970	25.01	-1.32	41204.340	5.0	87941.080	4.0
213.9009	7.01	-5.22	48.700	1.0	46784.600	2.0
213.9013	24.00	-5.44	7593.160	2.0	54328.950	3.0
213.9055	18.01	-2.94	143371.350	1.5	190108.230	1.5
213.9075	28.01	-2.57	25036.380	2.5	71770.830	2.5
213.9109	24.02	.47	63420.300	3.0	110154.000	4.0
213.9133	26.02	-2.36	135096.840	3.0	181830.020	3.0
213.9147	28.00	-3.42	3409.925	2.0	50142.800	3.0
213.9195	26.02	-3.22	135096.840	3.0	181828.660	2.0
213.9205	28.02	-4.46	71383.700	2.0	118115.300	2.0
213.9230	22.01	-2.27	9518.050	2.5	56249.110	1.5
213.9317	26.01	-3.75	13673.210	1.5	60402.380	2.5
213.9332	26.02	-4.95	135096.840	3.0	181825.670	4.0
213.9352	24.01	-1.78	19528.380	.5	66256.770	.5
213.9371	27.00	-6.14	3482.820	4.5	50210.800	4.5
213.9393	25.01	-3.01	38720.200	6.0	85447.700	5.0
213.9455	26.02	-1.20	90483.590	3.0	137209.730	4.0
213.9475	26.01	-2.74	38458.990	4.5	85184.690	4.5
213.9488	22.00	-2.20	0.000	2.0	46725.420	3.0
213.9490	7.01	-2.47	164610.760	1.0	211336.160	1.0
213.9490	18.03	-1.82	257348.890	1.5	304074.290	2.5
213.9502	25.01	-4.79	32787.600	4.0	79512.730	3.0
213.9524	28.01	-4.96	72375.420	1.5	119100.060	1.5
213.9529	20.02	-1.20	281882.240	2.0	328606.780	2.0
213.9560	24.01	-1.56	19631.280	1.5	66355.130	1.5
213.9609	8.02	-4.21	367952.200	1.0	414675.000	2.0
213.9637	26.01	-2.73	667.640	2.5	47389.820	1.5
213.9665	28.01	-1.14	55018.710	2.5	101740.270	3.5
213.9690	51.00	.78	8469.040	0.0	55204.782	0.0
213.9699	26.00	-.84	0.000	4.0	46720.824	4.0
213.9710	28.01	-.39	68154.310	1.5	114874.880	2.5
213.9712	24.00	-5.53	0.000	3.0	46720.540	4.0
213.9731	26.00	-1.33	415.932	3.0	47136.056	2.0
213.9777	23.01	-3.84	19166.190	1.0	65865.300	2.0
213.9803	23.01	-.77	36.050	1.0	46754.590	1.0
213.9864	22.01	-6.66	907.960	1.5	47625.170	2.5
213.9869	23.01	-7.98	339.210	4.0	47056.320	4.0
213.9884	25.01	-3.01	56883.380	1.0	103600.170	2.0
213.9894	26.02	-4.73	83138.230	5.0	129854.800	6.0
213.9897	30.02	-.87	235452.500	2.0	282169.000	2.0
213.9920	26.00	-2.11	704.003	2.0	47420.006	2.0
213.9938	27.02	-2.96	12527.000	3.5	171942.600	4.5
214.0051	26.02	-4.21	135705.570	3.0	182416.700	4.0
214.0067	28.01	-4.90	68156.270	1.5	114869.350	1.5
214.0072	23.01	-.19	339.210	4.0	47051.690	3.0
214.0087	8.01	-4.30	208392.270	1.5	255104.600	2.5
214.0120	25.02	-2.07	132971.990	3.5	179663.610	4.5
214.0140	26.01	-3.70	22939.350	2.5	69650.540	2.5
214.0170	26.02	-4.52	141399.040	2.0	188109.580	3.0
214.0170	26.01	-2.17	20805.830	4.5	67516.370	5.5
214.0172	30.02	-2.72	258239.600	4.0	304950.100	5.0
214.0172	30.02	-1.08	258239.600	4.0	304950.100	4.0
214.0210	22.01	-1.90	12758.150	2.5	59467.810	3.5
214.0221	23.01	-2.26	8640.210	2.0	55349.630	3.0
214.0240	30.02	-.36	258239.600	4.0	304948.600	5.0
214.0328	26.02	-3.59	135705.570	3.0	162412.650	4.0
214.0347	25.01	-1.41	36364.300	1.0	83070.970	2.0
214.0354	20.02	.63	281882.240	2.0	328588.760	3.0
214.0405	28.01	-1.41	68131.210	3.5	114836.630	3.5
214.0427	26.02	-1.81	89907.850	4.0	136612.780	4.0
214.0427	26.02	-1.40	89907.850	5.0	136612.780	4.0
214.0473	23.01	-1.71	36.050	1.0	46735.980	2.0
214.0500	26.02	-2.12	135705.570	3.0	162408.910	3.0
214.0511	30.02	-3.79	258239.600	4.0	304942.700	4.0
214.0511	30.02	-2.24	258239.600	4.0	304942.700	3.0
214.0516	24.01	-.98	20024.180	3.5	66727.160	2.5
214.0578	26.01	-4.23	25428.800	5.5	72130.440	4.5
214.0593	25.02	-4.10	148206.900	5.5	194906.400	5.5
214.0643	20.02	-1.55	281882.240	2.0	328562.450	1.0
214.0667	23.02	-1.72	99440.100	2.5	146139.800	2.5
214.0702	26.02	-1.74	142312.900	3.0	189011.840	4.0
214.0723	26.02	-3.89	139680.470	3.0	166378.940	4.0
214.0737	25.02	.03	86578.240	3.5	133216.400	4.5
214.0747	18.01	-2.58	142717.020	3.5	189414.900	3.5
214.0756	18.01	-1.81	161084.640	1.5	207746.380	2.5
214.0781	25.03	-3.88	120603.100	4.0	167300.300	3.0
214.0836	30.02	-1.43	238205.500	1.0	284901.500	2.0
214.0907	24.01	-2.09	31083.110	1.5	77777.560	.5
214.0951	28.02	-4.86	86646.200	2.0	133339.700	1.0
214.0973	22.01	-2.10	12628.770	1.5	59321.790	2.5
214.0995	23.01	-2.96	17910.980	4.0	64603.530	3.0
214.1026	26.01	-1.33	31999.120	3.5	78690.960	2.5
214.1034	24.02	-1.69	111375.000	3.0	156066.700	3.0
214.1082	25.02	-.98	90746.060	5.5	137436.700	4.5
214.1087	26.00	-2.59	415.932	3.0	47106.463	4.0
214.1092	23.01	-1.84	0.000	0.0	46690.430	1.0
214.1105	27.01	-3.09	18388.500	1.0	65028.650	1.0
214.1162	24.02	.47	50408.200	5.0	97097.100	4.0
214.1177	28.01	-.52	68281.620	.5	114970.190	.5
214.1179	18.02	-.89	239193.480	1.0	285882.000	1.0
214.1192	24.00	-6.15	0.000	3.0	46668.240	3.0
214.1203	23.03	.38	216905.000	1.0	263593.000	2.0
214.1242	25.02	-1.00	91948.300	3.5	138635.460	2.5
214.1248	24.01	-3.41	30391.940	6.5	77078.960	5.5
214.1373	25.02	-3.76	131701.690	1.5	178366.000	.5
214.1396	29.02	-2.72	147647.000	5.5	194330.600	5.5
214.1409	23.01	-5.09	19132.690	2.0	65616.200	1.0
214.1415	26.02	-2.33	135735.310	5.0	182418.700	4.0
214.1470	26.00	-1.73	6928.266	5.0	53610.440	4.0
214.1567	25.02	-2.00	89052.440	3.5	135732.500	4.5
214.1647	27.01	-3.21	18388.500	1.0	65016.830	2.0
214.1650	26.02	-4.19	139625.170	4.0	186303.440	3.0
214.1680	18.01	-2.44	155043.070	2.5	201720.670	1.5
214.1692	23.01	-4.91	19112.930	4.0	65790.280	4.0
214.1692	26.02	-2.69	135735.310	5.0	182412.650	4.0
214.1705	24.00	-6.75	0.000	3.0	46477.000	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
214.1709	23.02	-2.34	42267.400	2.5	88944.380	2.5	214.3956	26.00	-2.11	7376.762	4.0	54004.620	3.0
214.1719	26.00	-1.11	415.932	3.0	47092.693	3.0	214.3972	26.02	-4.31	139827.170	4.0	186454.890	5.0
214.1724	25.02	-4.33	84610.530	5	131287.180	5	214.4032	27.02	-2.21	127224.700	5	173851.100	5
214.1782	26.01	-1.85	31811.870	2.5	78487.250	1.5	214.4032	27.02	-2.21	127224.700	5	173851.100	5
214.1919	30.02	-4.52	258277.700	3.0	304950.100	4.0	214.4032	27.02	-4.00	127224.700	5	173851.100	5
214.1956	27.02	-4.32	82920.700	3.5	129592.300	4.5	214.4074	24.01	-1.75	19631.280	1.5	66256.770	5
214.1970	23.02	-3.39	106441.310	4.5	153112.600	3.5	214.4088	23.01	-5.25	2968.220	4.0	49593.410	5.0
214.1981	23.01	-1.02	208.890	3.0	46879.940	2.0	214.4147	24.02	-.32	50089.200	4.0	96713.100	3.0
214.1998	29.01	-1.88	69704.800	4.0	116375.470	3.0	214.4153	25.02	-4.21	133059.840	3.5	179683.610	4.5
214.2017	26.01	-2.15	25981.650	3.5	72651.910	3.5	214.4162	21.01	-1.25	29736.220	0.0	76359.810	1.0
214.2037	29.01	-2.26	71493.680	2.0	118163.500	2.0	214.4190	26.02	-4.10	139680.470	3.0	186303.440	3.0
214.2068	28.01	-0.06	54176.260	5	100845.410	5	214.4220	25.02	-.31	86654.070	4.5	133276.400	4.5
214.2075	24.03	-2.90	110700.000	3.5	157369.000	2.5	214.4230	78.00	.49	0.000	0.0	46636.788	0.0
214.2076	26.01	-2.49	25981.650	3.5	72650.630	4.5	214.4236	25.01	-4.78	32836.400	1.0	79458.360	2.0
214.2117	18.01	-1.26	172335.520	2.5	219003.600	2.5	214.4240	26.02	-2.06	77075.300	1.0	123697.180	2.0
214.2123	22.00	-2.05	170.132	3.0	46838.090	4.0	214.4246	26.02	-1.60	88694.670	5.0	135316.420	5.0
214.2146	26.00	-3.17	888.132	1.0	47555.584	1.0	214.4249	27.02	-3.69	126987.600	1.5	173609.300	1.5
214.2154	26.01	-2.97	22939.350	2.5	59606.640	3.5	214.4249	27.02	-3.69	126987.600	1.5	173609.300	1.5
214.2196	26.01	-4.29	39013.280	1.5	85679.640	2.5	214.4249	27.02	-3.69	126987.600	1.5	173609.300	1.5
214.2200	18.01	-2.37	172335.520	2.5	219001.800	1.5	214.4285	26.02	-.82	69695.730	4.0	116316.630	5.0
214.2255	25.02	-.87	89204.690	4.5	135869.760	3.5	214.4311	8.01	-4.64	208484.240	2.5	255104.600	2.5
214.2257	25.01	-3.09	33248.320	4.0	79913.350	4.0	214.4362	26.01	-2.94	23031.300	1.5	69650.540	2.5
214.2259	30.02	-1.61	258277.700	3.0	304942.700	4.0	214.4377	27.02	-1.91	57036.800	5	103655.700	1.5
214.2259	30.02	-1.14	258277.700	3.0	304942.700	3.0	214.4380	48.01	2.25	0.000	0.0	46633.526	0.0
214.2272	25.01	-4.03	36274.290	2.0	82939.000	1.0	214.4433	21.01	-1.38	29742.120	1.0	76359.810	1.0
214.2276	18.01	-2.68	145668.800	1.5	192333.430	5	214.4455	23.01	-5.37	19166.190	1.0	65783.400	0.0
214.2326	26.01	-1.50	26352.800	4.5	73016.330	3.5	214.4576	26.00	-1.23	7728.058	3.0	54344.646	2.0
214.2357	26.02	-2.83	136793.820	2.0	183456.690	3.0	214.4577	26.00	-4.40	7985.783	2.0	54600.350	3.0
214.2409	25.01	-2.11	36274.290	2.0	82936.010	3.0	214.4603	20.02	-3.80	324660.470	3.0	371274.480	2.0
214.2430	23.01	-1.47	18269.490	1.0	64930.760	1.0	214.4622	9.01	-2.16	240092.550	2.0	286706.140	1.0
214.2452	28.01	-.66	68781.620	5	114942.420	1.5	214.4685	29.01	-1.46	71919.930	3.0	118532.150	2.0
214.2461	24.02	-2.03	112371.200	2.0	159031.800	2.0	214.4718	26.02	-3.14	135217.170	1.0	181828.660	2.0
214.2475	25.03	-2.04	130969.500	3.0	177629.800	2.0	214.4719	29.01	-2.81	71531.500	3.0	118142.970	3.0
214.2484	26.02	-2.09	136797.050	3.0	183457.150	4.0	214.4727	25.01	-1.67	43339.100	2.0	89950.400	3.0
214.2489	24.01	-4.58	30219.040	4.5	76879.030	3.5	214.4727	30.02	-1.29	238205.500	1.0	244816.800	1.0
214.2505	26.02	-2.59	136797.050	3.0	183456.690	3.0	214.4743	26.02	-.65	83429.610	6.0	130004.560	7.0
214.2510	25.01	-4.70	68284.380	3.0	114943.900	3.0	214.4755	24.02	-1.94	69780.900	1.0	116391.600	2.0
214.2533	24.00	-5.82	7593.160	2.0	54252.190	2.0	214.4761	9.02	-3.79	344436.960	5	391047.540	5
214.2534	26.02	-1.72	88923.070	6.0	135582.080	6.0	214.4797	11.02	-.25	418418.100	1.5	465027.900	1.5
214.2603	24.02	-.95	49491.000	1.0	96148.500	1.0	214.4808	9.02	-2.77	413195.000	2.5	459604.550	1.5
214.2605	25.02	-3.18	89052.440	3.5	135709.900	2.5	214.4846	9.01	-1.82	240092.550	2.0	286701.280	2.0
214.2613	25.01	-2.33	44521.520	4.0	91178.800	4.0	214.4860	23.02	-.64	99941.200	3.5	146549.620	4.5
214.2642	8.01	-4.02	208484.240	2.5	255140.900	1.5	214.4860	51.00	.75	8469.040	0.0	55092.130	0.0
214.2647	20.02	-2.57	346896.260	2.0	393552.810	3.0	214.4870	27.02	-2.83	83799.600	2.5	130407.800	2.5
214.2715	25.01	-4.20	35004.430	3.0	81659.500	3.0	214.4946	26.00	-4.20	7376.762	4.0	53983.300	5.0
214.2721	23.01	-4.78	19161.270	0.0	65816.200	1.0	214.4959	28.01	-.86	66571.340	2.5	113177.610	3.5
214.2746	23.01	-2.05	36.050	1.0	46690.430	1.0	214.5012	30.02	-2.02	235452.500	2.0	282057.600	3.0
214.2746	23.03	-1.58	100200.700	2.0	146855.100	3.0	214.5014	24.00	-6.82	7593.160	2.0	54198.230	1.0
214.2749	26.01	-3.15	31483.200	3.5	78137.530	3.5	214.5071	26.01	-3.19	38858.960	2.5	85462.780	3.5
214.2750	52.00	.99	0.000	0.0	46669.000	0.0	214.5137	29.02	-3.80	78779.400	1.5	125361.800	2.5
214.2756	28.01	-1.60	56371.410	3.5	103025.580	2.5	214.5150	28.01	-.39	52738.450	2.5	99340.550	3.5
214.2764	27.02	-2.37	57036.800	5	103690.600	5	214.5181	25.01	-4.81	32856.950	3.0	79458.380	2.0
214.2773	7.01	-4.76	130.800	2.0	46784.600	2.0	214.5190	26.00	-.88	415.932	3.0	47017.170	3.0
214.2804	25.01	-2.84	33147.390	5.0	79800.520	4.0	214.5197	28.00	-2.53	2216.519	2.0	48817.600	1.0
214.2810	30.02	-2.32	258277.700	3.0	304930.700	2.0	214.5197	28.01	-1.97	56424.490	1.5	103025.580	2.5
214.2810	30.02	-2.22	258277.700	3.0	304930.700	3.0	214.5237	23.01	-5.25	2968.220	4.0	49568.450	3.0
214.2830	26.02	-2.48	88663.870	4.0	135316.420	5.0	214.5383	25.02	-4.77	133086.570	4.5	179683.610	4.5
214.2947	23.01	-8.06	19166.190	1.0	65816.200	1.0	214.5393	23.01	-6.31	2604.820	1.0	49201.660	2.0
214.2972	20.02	-2.37	323655.060	2.0	370304.540	2.0	214.5408	26.01	-3.12	26055.400	2.5	72651.910	3.5
214.2989	26.01	-3.62	977.030	5	47626.140	5	214.5428	24.01	-1.52	31117.590	2.5	77713.660	1.5
214.3040	10.03	-1.89	532978.000	1.5	579626.000	1.5	214.5475	29.01	-.59	67916.390	1.0	114511.440	1.0
214.3041	26.02	-1.15	77102.430	2.0	123750.390	3.0	214.5489	26.02	-2.00	77102.430	2.0	123697.180	2.0
214.3041	23.01	-.88	106.630	2.0	46754.590	1.0	214.5554	13.00	-2.02	0.000	5	46593.320	1.5
214.3048	25.01	-4.12	68284.380	3.0	114932.200	4.0	214.5593	25.01	-1.73	33147.390	5.0	79739.880	5.0
214.3079	26.02	-1.08	87901.870	3.0	134549.000	3.0	214.5612	28.01	-.99	67031.020	5	113623.100	5
214.3109	23.03	-2.16	217836.300	3.0	264482.800	2.0	214.5621	26.02	-1.61	69788.190	1.0	116380.070	1.0
214.3113	27.02	-3.79	125296.200	5.5	171942.600	4.5	214.5666	27.02	-2.96	125992.700	2.5	172583.600	3.5
214.3150	27.02	-2.50	126549.300	3.5	173194.900	2.5	214.5666	27.02	-2.96	125992.700	2.5	172583.600	3.5
214.3150	27.02	-2.50	126549.300	3.5	173194.900	2.5	214.5666	27.02	-3.24	125992.700	2.5	172583.600	3.5
214.3150	27.02	-2.75	126549.300	3.5	173194.900	2.5	214.5695	26.02	-2.42	135239.740	4.0	181830.020	3.0
214.3161	28.01	-4.51	66579.710	1.5	113225.060	5	214.5712	29.02	-2.76	77967.600	2.5	124557.500	3.5
214.3173	27.01	-4.53	22414.500	3.0	69059.590	3.0	214.5758	24.02	-3.86	111854.000	5.0	158442.900	4.0
214.3198	26.02	-2.38	135735.310	5.0	182379.860	5.0	214.5785	26.02	-4.69	139680.470	3.0	186268.790	2.0
214.3247	25.01	-2.84	36274.290	2.0	82917.780	2.0	214.5797	27.01	-4.40	17771.500	3.0	64359.560	3.0
214.3267	26.02	-3.56	141466.530	3.0	188109.580	3.0	214.5810	22.00	-1.77	386.874	4.0	46974.650	5.0
214.3276	26.02	-4.41	132564.710	5.0	179207.570	5.0	214.5819	28.01	-3.15	54557.050	4.5	101144.630	3.5
214.3285	26.02	-2.98	142312.900	3.0	188955.560	3.0	214.5855	27.01	-3.67	950.300	3.0	47537.100	2.0
214.3309	26.01	-2.76	25787.600	1.5	72429.740	5	214.5860	29.02	-3.55	80305.200	1.5	126891.900	2.

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
214.6844	9.02	-4.22	348702.800	.5	395268.130	1.5	215.0037	25.00	-5.00	17052.290	4.5	63546.490	4.5
214.6846	30.02	-6.68	238336.200	2.0	284901.500	2.0	215.0118	27.00	-4.46	4690.180	2.5	51184.630	3.5
214.6870	73.01	1.41	967.890	0.0	47547.329	0.0	215.0120	25.01	-1.04	39808.140	3.0	86302.550	3.0
214.6896	26.01	-4.05	26855.400	2.5	72619.610	2.5	215.0138	25.00	-1.01	17052.290	4.5	63546.300	3.5
214.6903	29.01	-4.42	71919.930	3.0	118484.000	3.0	215.0141	24.01	-4.48	20518.330	3.5	67012.280	2.5
214.6923	22.01	-2.84	12758.150	2.5	59321.790	2.5	215.0148	27.02	-2.76	78927.800	3.5	125421.600	4.5
214.6989	27.01	-2.86	4950.000	2.0	51512.200	3.0	215.0185	26.00	-1.95	704.003	2.0	47197.000	2.0
214.7050	23.01	-4.71	3162.800	5.0	49723.680	4.0	215.0218	26.02	-1.84	135316.420	5.0	181808.700	5.0
214.7173	24.02	.11	49827.700	3.0	96385.900	2.0	215.0226	23.03	.34	217990.700	1.0	264482.800	2.0
214.7189	24.01	-8.86	20512.620	2.5	67070.480	1.5	215.0235	23.03	.77	218100.000	4.0	264591.900	5.0
214.7190	52.00	.97	10485.478	0.0	57057.975	0.0	215.0249	24.00	-3.92	8307.570	4.0	54799.180	5.0
214.7223	24.01	-1.23	19798.010	2.5	66355.130	1.5	215.0251	25.01	-1.23	33248.320	4.0	79739.880	5.0
214.7249	18.02	-1.77	196589.200	1.0	243145.760	2.0	215.0265	18.01	-2.57	158730.210	2.5	205221.470	1.5
214.7265	9.01	-2.17	240152.710	1.0	286708.930	0.0	215.0336	23.02	-3.05	110181.470	2.5	156671.200	2.5
214.7279	27.01	-2.58	25147.200	4.0	71703.100	5.0	215.0362	25.01	-1.92	39813.380	2.0	86302.550	3.0
214.7308	22.00	-2.34	170.132	3.0	46725.420	3.0	215.0440	25.02	-1.94	89204.690	4.5	135692.170	3.5
214.7390	27.01	-3.33	1597.200	2.0	48150.700	3.0	215.0451	14.00	-2.67	15394.370	0.0	61881.600	1.0
214.7391	25.01	-2.44	36364.300	1.0	82917.780	2.0	215.0515	23.01	-2.82	22273.540	1.0	68759.400	1.0
214.7393	9.01	-2.60	240152.710	1.0	286706.140	1.0	215.0536	18.01	-2.08	150147.620	2.5	196633.020	2.5
214.7446	23.03	-1.38	217350.000	3.0	263902.300	3.0	215.0540	77.00	.68	4032.876	0.0	50532.825	0.0
214.7450	25.01	-1.82	33248.320	4.0	79800.520	4.0	215.0555	23.03	-.64	217108.000	2.0	263593.000	2.0
214.7459	11.02	-2.90	416910.200	.5	463462.200	1.5	215.0617	26.01	-1.74	20516.980	2.5	67000.630	2.5
214.7470	26.02	-3.70	139827.170	4.0	186378.940	4.0	215.0620	73.01	1.09	967.890	0.0	47466.109	0.0
214.7471	23.02	.43	63303.120	4.5	109854.870	3.5	215.0624	30.02	-3.22	238205.500	1.0	284689.000	1.0
214.7506	26.02	-3.35	135279.040	2.0	181830.020	3.0	215.0647	22.01	-6.94	983.800	2.5	47466.800	3.5
214.7534	23.01	-2.19	36.050	1.0	46586.430	0.0	215.0652	25.00	-4.27	17282.000	3.5	63764.900	2.5
214.7569	26.02	-2.78	135279.040	2.0	181828.660	2.0	215.0653	24.01	-.61	21822.860	2.5	68305.730	1.5
214.7589	24.02	.22	63172.200	2.0	109721.400	3.0	215.0699	13.00	-1.76	112.061	1.5	46593.950	2.5
214.7618	9.01	-1.64	240152.710	1.0	286701.280	2.0	215.0705	10.02	.11	389139.050	3.0	435620.800	4.0
214.7626	26.02	-4.39	132659.170	4.0	179207.570	5.0	215.0712	25.02	-.31	86578.240	3.5	133059.840	3.5
214.7682	18.01	-2.63	143107.600	2.5	189654.780	2.5	215.0718	24.01	-.98	21824.250	.5	68305.730	1.5
214.7687	26.01	-3.88	62303.170	4.5	108630.240	5.5	215.0728	13.00	-2.72	112.061	1.5	46593.950	2.5
214.7697	26.01	-3.49	25805.320	4.5	72352.170	3.5	215.0744	24.01	-.62	21824.820	1.5	68305.730	1.5
214.7741	25.01	-.40	38901.800	4.0	85447.700	5.0	215.0759	30.02	-1.84	238336.200	2.0	284616.800	1.0
214.7778	30.02	-1.73	235623.900	3.0	282169.000	2.0	215.0766	26.01	-1.28	26170.190	5.5	72650.630	4.5
214.7779	26.02	-2.19	88694.670	5.0	135239.740	4.0	215.0772	24.02	.08	65890.900	3.0	112371.200	2.0
214.7782	28.00	-1.29	879.813	2.0	47424.830	1.0	215.0795	20.00	-1.84	0.000	0.0	46479.813	1.0
214.7829	28.01	-4.82	71770.830	2.5	118314.820	2.5	215.0889	26.01	-4.13	15844.710	4.5	62322.500	3.5
214.7907	26.02	-1.31	69837.760	2.0	116380.070	1.0	215.0895	26.02	-3.91	77075.300	1.0	123552.950	1.0
214.7932	14.00	-3.55	15394.370	0.0	61936.130	1.0	215.0959	26.02	-4.56	139827.170	4.0	186303.440	3.0
214.7965	18.02	-.87	225155.180	1.0	271696.220	0.0	215.0991	26.00	-1.74	7376.762	4.0	53522.330	4.0
214.8021	23.02	-.93	63315.050	3.5	109854.870	3.5	215.1009	25.01	-3.77	36364.300	1.0	82839.490	0.0
214.8026	24.00	-1.05	7593.160	2.0	54132.880	3.0	215.1052	18.01	-.64	150147.620	2.5	196621.680	3.5
214.8041	9.02	-3.38	344436.960	.5	390976.350	1.5	215.1070	25.02	-.61	89307.220	5.5	135781.090	5.5
214.8061	26.02	-.41	139764.480	2.0	186303.440	3.5	215.1089	26.01	-1.26	18360.650	1.5	64834.120	1.5
214.8064	25.02	.03	86520.940	2.5	133059.840	3.5	215.1101	26.00	-1.16	704.003	2.0	47177.210	1.0
214.8098	23.02	-1.63	99440.100	2.5	145978.270	2.5	215.1101	26.00	-1.06	415.932	3.0	46889.126	4.0
214.8107	22.01	-0.57	1087.210	3.5	47625.170	2.5	215.1131	26.00	-2.13	415.932	3.0	46888.494	2.0
214.8203	21.01	-1.16	29823.920	2.0	76359.810	1.0	215.1138	23.03	.43	217350.000	3.0	262822.400	4.0
214.8220	77.00	1.05	7017.204	0.0	53567.371	0.0	215.1158	26.02	-2.17	136008.740	3.0	182460.720	2.0
214.8242	26.02	-3.95	132659.170	4.0	179194.220	4.0	215.1203	11.02	-1.32	418556.900	.5	465027.900	1.5
214.8246	26.01	-.82	7955.240	3.5	54490.200	2.5	215.1256	27.00	-3.16	4690.180	2.5	51160.030	2.5
214.8246	26.01	-8.79	7955.240	3.5	54490.200	3.5	215.1260	23.02	-1.89	99508.500	1.5	145978.270	2.5
214.8261	26.02	-1.54	82382.870	3.0	128917.510	2.0	215.1265	10.02	-.05	389058.240	1.0	435527.900	2.0
214.8261	23.01	-4.67	18269.490	1.0	64804.130	2.0	215.1285	26.01	-4.00	26055.400	2.5	72524.620	1.5
214.8264	25.01	-6.56	68417.340	2.0	114951.900	2.0	215.1300	27.02	-3.09	83938.900	3.5	130407.800	2.5
214.8389	26.00	-2.23	888.132	1.0	47420.000	2.0	215.1316	27.00	-4.07	4142.660	3.5	50611.220	3.5
214.8390	18.02	-1.50	196613.910	2.0	243145.760	2.0	215.1430	50.00	.25	3387.616	0.0	49868.329	0.0
214.8424	24.02	-.28	63038.600	1.0	109569.700	2.0	215.1436	18.02	-2.26	196679.800	3.0	243145.760	2.0
214.8425	23.01	-.64	208.890	3.0	46739.980	2.0	215.1458	23.02	-2.10	99181.500	1.5	145647.000	1.5
214.8455	29.01	-2.66	88605.160	1.0	135135.600	1.0	215.1599	27.02	-1.46	125003.300	2.5	171466.600	2.5
214.8576	25.02	-.27	85173.880	1.5	131701.690	1.5	215.1599	27.02	-1.46	125003.300	2.5	171466.600	2.5
214.8576	25.02	-.57	89204.690	4.5	135732.500	4.5	215.1603	23.01	-2.16	8841.970	3.0	55304.340	4.0
214.8601	2.01	-1.40	390142.340	0.0	436684.253	0.0	215.1620	30.02	-2.33	237506.800	1.0	283968.800	0.0
214.8605	26.01	-3.47	862.630	1.5	47389.820	1.5	215.1627	26.00	-1.58	7376.762	4.0	53838.600	3.0
214.8617	9.01	-1.93	240179.220	0.0	286706.140	1.0	215.1666	25.01	-4.66	36274.290	2.0	82735.290	2.0
214.8634	25.01	-.96	68417.340	2.0	114943.900	3.0	215.1706	25.01	-4.68	68496.370	1.0	114956.500	1.0
214.8704	27.00	-2.80	1809.330	1.5	48334.370	1.5	215.1719	23.01	-6.09	2808.760	3.0	49268.610	4.0
214.8722	26.01	-2.35	38660.040	3.5	85184.690	4.5	215.1772	28.02	-4.32	135023.600	3.0	181482.300	4.0
214.8730	50.00	-.28	1613.150	0.0	48152.268	0.0	215.1780	26.02	.02	87901.870	3.0	134360.400	4.0
214.8745	23.01	-4.08	22273.540	1.0	68797.700	2.0	215.1780	10.02	-.09	389069.370	2.0	435527.900	2.0
214.8745	18.02	-.47	225147.930	2.0	271672.080	1.0	215.1789	29.01	.09	69867.810	2.0	116326.160	3.0
214.8763	23.01	-5.83	2687.010	2.0	49210.780	3.0	215.1793	25.02	-2.76	89052.440	3.5	135510.700	2.5
214.8782	28.01	-3.43	71770.830	2.5	118294.170	3.5	215.1812	25.01	-3.28	44138.960	1.0	90596.800	2.0
214.8838	25.01	-1.35	33278.390	3.0	79800.520	4.0	215.1865	25.02	-1.52	91906.100	2.5	138362.800	3.5
214.8858	24.02	-.24	49626.800	2.0	96148.500	1.0	215.1874	26.01	-4.14	25805.320	4.5	72261.830	5.5
214.8890	23.01	-3.41	23391.090	5.0	69912.100	4.0	215.1875	25.01	-2.56	37811.570	1.0	84268.060	1.0
214.8928	29.01	-.48	69867.810	2.0	116388.000	2.0	215.1890	26.02	-4.86	135316.420	5.0	181772.590	6.0
214.8962													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
215.2750	26.02	-8.26	42896.900	3.0	89334.510	2.0	215.5339	25.01	-1.42	39826.570	1.0	86208.400	1.0
215.2805	26.01	-2.61	27314.930	3.5	73751.340	4.5	215.5352	26.01	-4.48	25787.600	1.5	72169.150	1.5
215.2821	27.00	-2.43	4142.660	3.5	50578.730	3.5	215.5393	28.01	-3.27	53037.930	2.5	99418.610	3.5
215.2834	38.01	.32	14555.900	0.0	61006.300	0.0	215.5395	26.02	-2.75	77075.300	1.0	123455.920	0.0
215.2880	29.01	-2.04	71493.680	2.0	117928.480	1.0	215.5443	22.01	-6.73	1087.210	3.5	47466.800	3.5
215.2884	26.02	-2.91	93392.450	3.0	139827.170	4.0	215.5498	9.02	-3.89	349007.250	2.5	395385.660	2.5
215.2893	25.02	-1.70	91906.100	2.5	138340.620	2.5	215.5503	26.01	-3.41	13164.470	1.5	77742.780	2.5
215.2929	15.00	-7.74	18722.650	.5	65156.400	1.5	215.5532	28.01	-1.98	67031.020	.5	113408.710	1.5
215.2931	30.02	-7.73	235623.900	3.0	282057.600	3.0	215.5573	25.02	-4.46	86520.940	2.5	132897.740	2.5
215.2965	26.02	-4.32	88663.870	4.0	135096.840	3.0	215.5573	25.01	-1.12	39813.840	2.0	86190.180	2.0
215.2987	25.02	-2.81	86654.070	4.5	133086.570	4.5	215.5599	22.01	-5.53	9872.870	.5	56249.110	1.5
215.3007	26.00	-1.11	704.003	2.0	47136.058	2.0	215.5604	23.01	-4.85	17910.980	4.0	64267.100	5.0
215.3068	18.01	-1.20	155351.030	1.5	201781.790	2.5	215.5631	28.01	-1.12	53634.620	1.5	100010.170	.5
215.3074	23.01	-6.41	3162.800	5.0	49593.410	5.0	215.5732	26.02	-2.61	90423.680	2.0	136797.050	3.0
215.3108	26.02	-4.61	140453.100	3.0	186882.980	3.0	215.5785	22.01	-3.89	9850.900	.5	56223.133	.5
215.3135	27.01	-5.23	22414.500	3.0	68843.800	4.0	215.5795	26.02	-2.40	93392.450	3.0	139764.480	2.0
215.3150	24.00	-5.58	8307.570	4.0	54736.550	4.0	215.5810	77.00	.37	0.000	0.0	46386.277	0.0
215.3152	10.02	.03	389139.050	3.0	435568.000	3.0	215.5829	27.02	-2.90	125369.100	2.5	171740.400	1.5
215.3192	26.02	-2.43	135990.620	4.0	182418.700	4.0	215.5829	27.02	-2.90	125369.100	2.5	171740.400	1.5
215.3311	26.01	-3.44	25787.600	1.5	72213.100	.5	215.5843	25.01	-2.64	36364.300	1.0	82735.296	2.0
215.3322	25.02	-2.01	89307.220	5.5	135732.500	4.5	215.5856	24.02	-5.58	66027.800	4.0	112398.500	4.0
215.3326	26.02	-1.94	83429.610	6.0	129854.800	6.0	215.5865	26.01	-1.18	25981.650	3.5	72352.170	3.5
215.3409	24.02	-4.55	111643.300	4.0	158066.700	3.0	215.5883	26.02	-2.49	90423.680	2.0	136793.820	2.0
215.3436	20.02	-2.34	324110.240	4.0	370533.070	4.0	215.5894	24.00	-1.42	7593.160	2.0	53963.050	1.0
215.3445	26.02	-3.54	82494.880	1.0	128917.510	2.0	215.5898	27.02	-2.25	85517.300	5.5	131867.100	4.5
215.3452	24.00	-5.02	0.000	3.0	46422.460	4.0	215.5905	18.01	-3.10	155351.030	1.5	201720.670	1.5
215.3460	28.01	-2.84	73893.730	1.5	120316.020	.5	215.5922	25.01	-1.28	34910.430	4.0	81279.710	4.0
215.3464	26.02	-3.50	132785.360	4.0	179207.570	5.0	215.5961	26.02	-3.45	136117.940	2.0	182486.400	1.0
215.3472	26.02	-3.42	135990.620	4.0	182412.650	4.0	215.5966	24.00	-5.55	0.000	3.0	46368.350	3.0
215.3525	27.02	-3.61	126381.800	1.5	172802.700	2.5	215.6001	25.02	-4.61	132971.990	3.5	179339.590	2.5
215.3544	26.02	-1.77	142535.070	2.0	188955.560	3.0	215.6066	25.02	-4.78	88880.080	2.5	135246.270	2.5
215.3547	26.02	-4.04	89697.520	3.0	136117.940	2.0	215.6149	25.02	-9.91	91948.300	3.5	138312.700	4.5
215.3559	25.01	-2.25	37847.900	2.0	84268.060	1.0	215.6186	25.01	-2.34	39826.570	1.0	86190.180	2.0
215.3560	74.01	1.41	6049.314	0.0	52484.055	0.0	215.6189	26.02	-1.16	7901.870	3.0	134265.420	2.0
215.3605	26.01	-2.90	21581.640	4.5	68000.820	4.5	215.6215	26.01	-5.25	22939.350	2.5	69302.350	1.5
215.3637	23.02	-2.12	99804.570	2.5	146223.050	3.5	215.6225	26.02	-2.99	136117.940	2.0	182486.400	2.0
215.3646	26.02	-2.80	135990.620	4.0	182408.910	3.0	215.6237	24.01	-9.99	13151.150	2.5	77713.660	1.5
215.3663	18.01	-4.01	158167.710	1.5	204585.640	2.5	215.6239	20.02	-3.24	225826.220	2.0	272188.700	1.0
215.3727	26.02	-3.29	89783.590	4.0	136200.130	3.0	215.6243	24.01	-4.55	38315.000	2.5	84677.390	3.5
215.3797	28.01	-2.10	71457.740	3.5	117872.780	2.5	215.6356	18.02	-1.02	225147.930	2.0	271507.880	2.0
215.3822	25.02	-1.72	91948.300	3.5	138362.800	3.5	215.6500	26.00	-1.62	7985.783	2.0	54342.640	2.0
215.3822	27.01	-3.08	19189.900	4.0	65604.400	3.0	215.6511	28.01	-5.53	54262.630	3.5	100519.260	4.5
215.3868	25.01	-4.67	43536.900	4.0	89950.400	3.0	215.6515	26.00	-2.87	7376.762	4.0	53733.310	3.0
215.3901	26.01	-4.21	977.030	.5	47389.820	1.5	215.6566	26.01	-2.50	62293.200	6.5	108446.640	6.5
215.3927	56.01	-8.83	20261.562	0.0	66688.391	0.0	215.6596	26.01	-4.91	31387.980	2.5	77742.780	2.5
215.3986	25.02	.03	86486.770	1.5	132897.740	2.5	215.6670	75.00	.25	0.000	0.0	46367.780	0.0
215.3986	8.01	-4.48	208484.240	2.5	254895.200	1.5	215.6680	27.01	-3.44	4560.800	3.0	50913.800	2.0
215.3986	8.01	-3.82	208484.240	2.5	254895.200	2.5	215.6689	30.02	-1.45	238336.200	2.0	284689.000	1.0
215.4011	25.01	-3.84	36364.300	1.0	82774.730	1.0	215.6694	27.01	-2.91	4028.900	4.0	50381.600	3.0
215.4033	26.02	-2.23	136008.740	3.0	182418.700	4.0	215.6694	18.02	-2.99	225155.180	1.0	271507.880	2.0
215.4066	15.00	-4.49	18747.950	1.5	65157.200	2.5	215.6707	28.01	-4.61	75917.630	3.5	122270.050	3.5
215.4072	27.00	-3.68	816.000	3.5	47225.110	3.5	215.6747	26.02	-2.46	93412.930	2.0	139764.480	2.0
215.4084	26.02	-4.93	132785.360	4.0	179194.220	4.0	215.6807	22.01	-1.23	9872.870	.5	56223.133	.5
215.4103	15.00	-1.22	18747.950	1.5	65156.400	1.5	215.6818	22.01	-1.53	9975.920	1.5	56325.940	2.5
215.4137	24.01	-4.21	38769.670	3.5	84677.390	3.5	215.6843	24.00	-6.26	0.000	3.0	46349.500	2.0
215.4160	25.02	-2.65	133276.400	4.5	179683.610	4.5	215.6848	28.01	-2.33	68735.980	2.5	115085.360	3.5
215.4181	26.00	-1.59	7728.058	3.0	54134.820	2.0	215.6926	25.02	-4.82	148560.500	4.5	194908.200	5.5
215.4227	25.02	-1.52	86654.070	4.5	133059.840	3.5	215.6939	28.01	-2.24	55018.710	2.5	101366.140	2.5
215.4237	25.00	-2.91	17052.290	4.5	63457.850	5.5	215.6945	18.01	-3.82	158167.710	1.5	204515.000	.5
215.4258	20.02	-3.55	324110.240	4.0	370515.360	4.0	215.6959	27.01	-2.35	3350.500	5.0	49697.500	4.0
215.4302	26.01	-1.60	38458.990	4.5	84863.140	5.5	215.6997	25.02	-1.13	90936.220	1.5	137282.400	2.5
215.4313	26.02	-3.85	136008.740	3.0	182412.650	4.0	215.7021	26.00	-6.26	7376.762	4.0	53722.440	5.0
215.4327	24.01	-1.80	31531.620	1.5	77935.240	2.5	215.7086	25.02	-2.35	97000.800	4.5	143345.070	3.5
215.4401	23.01	-6.57	2808.760	3.0	49210.780	3.0	215.7089	27.02	-4.57	126239.400	4.5	172583.600	3.5
215.4422	26.02	-2.01	89783.590	4.0	136185.170	5.0	215.7089	27.02	-4.57	126239.400	4.5	172583.600	3.5
215.4422	23.01	-2.88	9097.810	4.0	55499.380	5.0	215.7089	27.02	-4.57	126239.400	4.5	172583.600	3.5
215.4426	24.00	-1.19	7927.470	2.0	54328.950	3.0	215.7120	26.02	-2.67	70725.010	3.0	117068.560	3.0
215.4467	26.00	-3.14	6928.266	5.0	53328.870	4.0	215.7266	29.02	-1.46	80551.500	2.5	126891.900	2.5
215.4487	26.02	-3.09	136008.740	3.0	182408.910	3.0	215.7285	27.02	-3.65	86283.800	4.5	132623.800	3.5
215.4520	20.02	-2.22	324660.470	3.0	371059.950	3.0	215.7290	25.02	-3.53	148560.500	4.5	194908.200	5.5
215.4578	22.01	-2.86	9850.900	.5	56249.110	1.5	215.7294	26.02	-2.36	70728.750	4.0	117068.560	3.0
215.4590	76.00	.82	2661.698	0.0	49074.241	0.0	215.7353	22.00	-3.83	386.874	4.0	46725.420	3.0
215.4611	24.02	-3.4	63172.200	2.0	109569.700	2.0	215.7415	25.02	-4.31	100054.100	.5	146391.300	.5
215.4613	13.02	-7.79	167612.750	2.5	214010.220	3.5	215.7423	26.01	-4.37	62293.200	6.5	108630.240	5.5
215.4642	25.00	-4.55	17052.290	4.5	63449.130	5.5	215.7426	10.01	-4.72	292451.780	1.5	338788.760	.5
215.4642	13.02	-6.68	167613.370	3.5	214010.220	4.5	215.7490	28.01	-1.05	66571.340	2.5	112906.930	1.5
215.4642	13.02	-2.22	167613.370	3.5	214010.220	3.5	215.7507	23.02	-1.71	99804.570	2.5	146139.800	2.5
215.4682	26.01	-5.97	23031.300	1.5	69427.270	.5	215.7529	18.02	-1.77	196589.200	1.0	2429	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
215.6179	27.01	-3.43	0.000	4.0	46320.800	4.0	216.0810	25.01	-3.06	33248.320	4.0	79512.730	3.0
215.6190	26.01	-4.16	16369.390	3.5	62689.960	2.5	216.0815	25.00	-4.61	17282.000	3.5	63546.300	3.5
215.6240	25.02	-1.54	86578.240	3.5	132897.740	2.5	216.0855	25.01	-4.23	43536.900	4.0	89800.340	4.0
215.6292	22.01	-1.05	9930.740	1.5	56249.110	1.5	216.0876	27.02	-4.66	124765.900	5.5	171028.900	5.5
215.6298	23.02	-1.50	98825.190	3.5	145143.430	4.5	216.0884	10.02	-4.44	352692.930	2.0	398955.750	1.0
215.6301	28.00	-5.53	204.786	3.0	46522.965	2.0	216.0895	27.02	-2.79	126870.900	2.5	173133.500	1.5
215.6304	23.01	-6.20	17910.980	4.0	64229.100	5.0	216.0909	24.02	-4.59	111375.000	3.0	157637.300	3.0
215.6313	25.02	-1.19	86654.070	4.5	132971.990	3.5	216.0923	24.02	-1.32	63172.200	2.0	109434.200	2.0
215.6368	23.01	-4.93	18269.490	1.0	64586.230	2.0	216.0981	25.02	-3.90	132297.550	2.5	178558.300	1.5
215.6418	29.01	-2.87	72724.000	2.0	119039.680	2.0	216.1021	27.02	-3.68	86327.100	3.5	132587.000	4.5
215.6464	28.01	-0.91	54176.260	5	100490.950	1.5	216.1036	28.00	-1.30	879.813	2.0	47139.392	2.0
215.6471	26.02	-1.15	93512.640	4.0	139827.170	4.0	216.1036	26.01	-4.16	31483.200	3.5	77742.780	2.5
215.6514	23.02	-2.03	99508.500	1.5	145822.110	1.5	216.1043	10.02	0.15	352692.930	2.0	398952.340	2.0
215.6516	29.01	-2.53	88362.030	2.0	134675.600	2.0	216.1091	20.00	-6.08	0.000	0.0	46258.380	1.0
215.6520	26.01	-2.83	15844.710	4.5	62158.190	4.5	216.1095	23.03	-1.10	217350.000	3.0	263608.300	3.0
215.6521	26.02	-1.66	90483.590	3.0	136797.050	3.0	216.1100	28.02	-3.30	84604.800	1.0	130863.000	1.0
215.6525	25.00	-4.34	17451.520	2.5	63764.900	2.5	216.1157	26.01	-0.55	25981.650	3.5	72238.630	2.5
215.6530	26.00	0.49	2661.698	0.0	48989.523	0.0	216.1170	27.02	-4.49	125012.400	4.5	171269.100	4.5
215.6535	26.00	-0.97	704.003	2.0	47017.170	3.0	216.1183	26.01	-3.61	26932.740	5	73189.160	1.5
215.6543	16.01	-4.20	118146.500	1.5	164459.500	2.5	216.1191	15.01	-3.94	65252.250	1.0	111508.500	0.0
215.6545	27.00	-3.41	816.000	3.5	47128.960	2.5	216.1215	28.01	-1.09	10115.660	2.5	56371.410	3.5
215.6626	26.02	-2.65	89697.520	3.0	136008.740	3.0	216.1221	26.01	-4.24	25787.600	1.5	72043.210	1.5
215.6630	26.00	-5.44	415.932	3.0	46727.055	2.0	216.1222	10.02	0.35	352692.930	2.0	398948.510	3.0
215.6672	26.02	-1.89	90483.590	3.0	136793.620	2.0	216.1226	24.01	-2.32	39684.000	3.5	85939.500	4.5
215.6676	25.01	-2.63	34910.430	4.0	81220.580	3.0	216.1263	26.01	-2.02	26932.740	5	73187.460	5
215.6680	18.02	-1.52	196613.910	2.0	242923.960	1.0	216.1267	26.02	-0.80	73727.640	2.0	119982.260	1.0
215.6697	29.02	-2.63	147805.900	3.5	194115.600	3.5	216.1283	26.02	-3.18	135554.410	4.0	181808.700	5.0
215.6698	23.01	-2.67	18293.870	2.0	64603.530	3.0	216.1287	25.01	-3.45	43696.190	3.0	89950.400	3.0
215.6735	26.00	-1.70	888.132	1.0	47197.000	2.0	216.1307	29.01	0.16	71493.680	2.0	117747.450	3.0
215.6737	28.01	-0.83	10115.660	2.5	56424.490	1.5	216.1315	25.01	-2.81	39808.140	3.0	86061.750	3.0
215.6754	18.01	-2.83	155043.070	2.5	201351.550	2.5	216.1324	27.02	-3.02	126549.300	3.5	172802.700	2.5
215.6806	18.01	-3.94	143107.600	2.5	189414.960	3.5	216.1385	27.02	-4.45	125690.500	3.5	171942.600	4.5
215.6864	25.02	-2.97	100085.200	1.5	146391.300	5	216.1398	23.01	-4.29	9097.810	4.0	55349.630	3.0
215.6882	18.01	-2.20	145668.800	1.5	91974.530	1.5	216.1405	26.01	-3.15	38458.990	4.5	84710.660	3.5
215.6904	26.02	-3.59	140693.360	3.0	186998.600	4.0	216.1423	27.01	-4.37	1597.200	2.0	47848.500	1.0
215.6921	26.00	-1.36	415.932	3.0	46720.624	4.0	216.1426	22.01	-5.67	1215.580	4.5	47466.800	3.5
215.6900	27.02	-4.05	86283.800	4.5	132587.000	4.5	216.1430	8.01	-4.60	211712.660	2.5	257963.800	2.5
215.6918	27.02	-2.63	126892.100	3.5	173194.900	2.5	216.1457	26.02	-2.90	136235.840	1.0	182466.400	1.0
215.6918	27.02	-2.63	126892.100	3.5	173194.900	2.5	216.1481	26.02	-3.98	70725.010	3.0	116975.050	2.0
215.6918	27.02	-3.63	126892.100	3.5	173194.900	2.5	216.1500	23.01	-1.17	18353.890	3.0	64603.530	3.0
215.6935	18.01	-4.66	144709.910	5	191012.350	1.5	216.1506	18.01	-3.05	158167.710	1.5	204417.230	1.5
215.6942	28.01	0.05	52738.450	2.5	99040.750	1.5	216.1539	26.01	-3.45	20340.360	5.5	66589.170	4.5
215.6949	18.01	-1.32	155043.070	2.5	201345.220	1.5	216.1559	25.01	-3.05	39813.380	2.0	86061.750	3.0
215.6961	23.03	-0.02	218100.000	4.0	264401.900	4.0	216.1580	26.00	-0.88	888.132	1.0	47136.058	2.0
215.6993	22.01	-0.12	10024.740	2.5	56325.940	2.5	216.1604	26.02	-3.34	137209.730	4.0	183457.150	4.0
215.6998	24.02	-0.19	63420.300	3.0	109721.400	3.0	216.1614	22.01	-1.55	9975.920	1.5	56223.133	5
215.6912	16.01	-4.24	118146.500	1.5	164447.300	2.5	216.1625	26.02	-4.00	137209.730	4.0	183456.690	3.0
215.6913	23.01	-7.24	2968.220	4.0	49268.610	4.0	216.1658	25.02	-4.42	85051.500	2.5	132297.550	2.5
215.6917	23.01	-6.35	8841.970	3.0	55142.010	3.0	216.1672	24.01	-0.82	31531.620	1.5	77777.580	5
215.6917	26.01	-3.45	667.640	2.5	46967.470	2.5	216.1722	27.02	-2.04	83938.900	3.5	130183.800	3.5
215.6918	27.02	-3.32	78927.800	3.5	125227.000	3.5	216.1723	26.02	-3.16	136235.840	1.0	182480.720	2.0
215.6919	26.01	-4.10	26352.800	4.5	72651.910	3.5	216.1737	26.02	-2.90	136200.130	3.0	182444.700	3.0
215.6925	9.03	-3.06	460215.200	0.0	506514.000	1.0	216.1784	29.01	-1.65	71919.930	3.0	118163.500	2.0
215.6925	26.01	-3.03	26352.800	4.5	72650.630	4.5	216.1795	28.01	-0.49	57420.160	2.5	103663.500	1.5
215.6929	26.01	-2.62	26055.400	2.5	72352.170	3.5	216.1810	23.03	-2.46	217350.000	3.0	263593.000	2.0
215.6930	27.02	-2.86	86327.100	3.5	132623.600	3.5	216.1831	23.01	-5.08	2968.220	4.0	49210.780	3.0
215.6938	28.01	-3.61	70778.120	3.5	117074.700	3.5	216.1837	24.01	-4.49	38362.560	1.5	84604.990	2.5
215.6935	25.00	-4.05	17052.290	4.5	63347.910	4.5	216.1841	8.02	-3.51	324658.250	3.0	370900.600	2.0
215.6943	26.00	-2.33	978.076	0.0	47271.999	1.0	216.1854	10.01	-4.42	292546.700	5	338788.760	5
215.6943	10.02	0.04	352662.050	1.0	398955.750	1.0	216.1866	25.00	-0.85	17282.000	3.5	63523.820	2.5
215.6971	26.02	-3.53	89697.520	3.0	135990.620	4.0	216.1937	24.02	-0.68	70291.800	2.0	116532.100	3.0
215.6976	10.03	-0.55	648060.000	1.5	694353.000	2.5	216.1984	28.01	-0.69	55018.710	2.5	101258.010	1.5
215.69504	22.01	-0.57	9930.740	1.5	56223.133	5	216.2002	26.00	-1.77	7985.780	2.0	54224.660	1.0
215.69505	23.01	-1.90	18293.870	2.0	64586.230	2.0	216.2023	26.01	-0.62	15844.710	4.5	62083.170	4.5
215.69505	26.01	-4.93	22810.330	3.5	69102.690	2.5	216.2104	25.02	-1.27	88880.080	2.5	135116.800	1.5
215.69509	26.02	-2.24	89907.850	4.0	136200.130	3.0	216.2115	25.00	-2.09	17052.290	4.5	63268.760	5.5
215.69535	26.02	-2.52	93388.750	4.0	139680.470	3.0	216.2118	26.02	-2.97	93388.750	4.0	139625.170	4.0
215.69537	23.02	-3.13	42267.400	2.5	88559.080	1.5	216.2188	27.00	-1.82	4690.180	2.5	50925.110	1.5
215.69602	10.02	-0.07	352662.050	1.0	398952.340	2.0	216.2215	25.01	-3.14	33278.390	3.0	79512.730	3.0
215.69616	24.01	-4.08	38315.000	2.5	84604.990	2.5	216.2244	24.00	-0.55	8095.210	3.0	54328.950	3.0
215.69658	26.00	-1.69	888.132	1.0	47177.210	1.0	216.2246	26.00	-0.97	7376.762	4.0	53610.440	4.0
215.69660	26.01	-7.64	23317.600	2.5	69606.640	3.5	216.2253	26.02	-3.71	136185.170	5.0	182418.700	4.0
215.6965	26.01	-2.21	21711.890	3.5	68000.820	4.5	216.2290	18.01	-3.46	144709.910	5	190942.650	5
215.6969	28.01	0.80	75149.480	4.5	121437.680	5.5	216.2291	26.02	-1.41	93392.450	3.0	139625.170	4.0
215.69708	26.02	-2.52	93392.450	3.0	139680.470	3.0	216.2309	23.01	-2.47	18353.890	3.0	64506.230	2.0
215.69727	24.02	-0.48	49491.000	1.0	95778.600	0.0	216.2324	25.01	-4.60	43528.300	5.0	89760.330	5.0
215.69790	52.00	0.03	10485.478	0.0	56786.276	0.0	216.2328	25.01	-2.26	43339.100	2.0	89571.030	3.0
215.69833	26.00	-2.90	7985.783	2.0	54271.110	1.0	216.2467	24.00	0.17				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
216.3276	24.00	-7.54	7593.160	2.0	53804.840	3.0	216.5579	23.02	-1.82	110181.470	2.5	156344.000	1.5
216.3301	9.02	-4.56	444957.110	1.5	491168.250	2.5	216.5598	9.02	-3.58	445006.130	2.5	491168.250	2.5
216.3317	26.01	-3.61	38660.040	3.5	84870.840	2.5	216.5609	27.02	-2.70	86327.100	3.5	132489.000	2.5
216.3377	29.01	-2.29	88926.090	0.0	135135.600	1.0	216.5643	25.02	-2.03	88880.080	2.5	135041.250	1.5
216.3409	24.01	-3.11	20518.330	3.5	66727.160	2.5	216.5665	25.02	-0.50	97000.800	4.5	143161.500	4.5
216.3412	26.02	-2.88	136200.130	3.0	182408.910	3.0	216.5686	25.02	-0.19	94397.200	3.5	140557.460	4.5
216.3413	20.02	-0.38	281882.240	2.0	328090.990	2.0	216.5717	28.01	-4.74	68709.760	0.5	114869.350	1.5
216.3436	25.01	-2.97	43311.000	1.0	89519.250	2.0	216.5722	26.01	-3.03	39013.280	1.5	85172.770	0.5
216.3440	25.00	-2.62	17637.150	0.5	63845.320	1.5	216.5768	27.02	-4.15	125369.100	2.5	171527.600	3.5
216.3481	27.02	-4.67	126987.600	1.5	173194.900	2.5	216.5786	18.01	-1.43	150474.900	1.5	196633.020	2.5
216.3481	27.02	-4.67	126987.600	1.5	173194.900	2.5	216.5787	17.01	-3.87	128662.500	2.0	174820.600	2.0
216.3494	26.02	-2.78	89783.590	4.0	135990.620	4.0	216.5815	24.02	-2.21	112466.200	3.0	158623.700	4.0
216.3500	23.02	-3.71	99440.100	2.5	145647.000	1.5	216.5819	18.01	-0.61	150147.620	2.5	196305.040	3.5
216.3517	23.01	-3.16	9097.810	4.0	55304.340	4.0	216.5840	24.00	-1.58	8095.210	3.0	54252.190	2.0
216.3521	28.01	-0.91	68735.980	2.5	114942.420	1.5	216.5852	26.02	-2.83	136235.840	1.0	182392.550	2.0
216.3522	10.02	-0.79	352745.910	3.0	398952.340	2.0	216.5874	26.02	-4.79	142855.590	4.0	189011.840	4.0
216.3569	24.00	-1.58	7927.470	2.0	54132.880	3.0	216.5911	38.01	0.40	14836.240	0.0	61006.189	0.0
216.3573	27.00	-1.85	1406.840	2.5	47612.180	1.5	216.5911	38.01	-0.90	14836.240	0.0	61006.189	0.0
216.3575	23.02	-0.96	107060.410	0.5	153265.700	0.5	216.5913	26.01	-3.73	20516.980	2.5	66672.390	3.5
216.3657	26.01	-2.51	50076.100	1.5	96279.650	2.5	216.5938	56.01	-4.94	0.0000	0.0	46169.373	0.0
216.3688	28.01	-2.05	70635.460	2.5	116838.330	1.5	216.6021	28.01	-3.28	70358.940	4.5	116512.060	3.5
216.3701	10.02	0.06	352745.910	3.0	398948.510	3.0	216.6063	24.00	-0.75	7810.820	1.0	53963.050	1.0
216.3754	25.02	-0.45	90936.220	1.5	137137.690	1.5	216.6111	27.02	-1.58	127458.100	1.5	173609.300	1.5
216.3773	10.02	0.64	352745.910	3.0	398946.980	4.0	216.6111	27.02	-1.58	127458.100	1.5	173609.300	1.5
216.3774	14.00	-3.28	15394.370	0.0	61595.430	1.0	216.6111	27.02	-4.02	127458.100	1.5	173609.300	1.5
216.3848	26.01	-2.44	50157.610	4.5	96357.070	3.5	216.6152	28.00	-1.36	879.813	2.0	47030.148	3.0
216.3863	26.00	-1.10	978.076	0.0	47177.210	1.0	216.6196	24.02	-1.31	63420.300	3.0	109569.700	2.0
216.3879	24.02	-0.36	63038.600	1.0	109237.400	1.0	216.6213	26.00	-1.37	7985.783	2.0	54134.820	2.0
216.3884	17.01	-4.30	128621.900	1.0	174820.600	2.0	216.6224	26.01	-5.77	25981.650	3.5	72130.440	4.5
216.3888	23.02	-2.40	99941.200	3.5	146139.600	2.5	216.6224	18.02	-0.29	204563.530	1.0	250712.270	2.0
216.3922	26.02	-4.10	136612.780	4.0	182810.660	5.0	216.6242	28.01	0.25	66571.340	2.5	112719.750	3.5
216.3926	26.00	-1.83	704.003	2.0	46901.808	1.0	216.6320	74.01	1.54	4678.136	0.0	50839.368	0.0
216.3939	25.01	-3.28	27583.300	4.0	73780.810	3.0	216.6336	23.01	-6.58	17910.980	4.0	64057.390	3.0
216.3962	25.01	-3.61	27588.230	3.0	73785.250	2.0	216.6360	27.02	-2.83	126987.600	1.5	173133.500	1.5
216.3978	8.01	-3.74	228723.300	2.5	274920.000	1.5	216.6383	26.01	-0.99	38214.500	1.5	84359.900	1.5
216.3978	8.01	-4.47	228723.300	2.5	274920.000	2.5	216.6393	25.01	-1.28	36274.290	2.0	82419.460	3.0
216.3991	25.00	-4.30	17568.480	1.5	63764.900	2.5	216.6424	20.02	-1.55	347417.050	3.0	393561.590	4.0
216.4000	25.01	-4.02	27589.030	2.0	73785.250	2.0	216.6427	25.01	-2.93	39808.140	3.0	89592.600	3.0
216.4026	26.01	-1.82	38164.240	2.5	84359.900	1.5	216.6443	26.01	-3.52	50212.930	2.5	96357.070	3.5
216.4071	26.02	-1.93	82410.940	2.0	128605.650	1.0	216.6581	25.01	-3.93	34910.430	4.0	81051.620	3.0
216.4072	26.02	-2.37	136185.170	5.0	182379.660	5.0	216.6637	11.02	-3.49	414281.000	2.5	460421.000	2.5
216.4102	28.01	-0.58	67031.020	0.5	113225.060	0.5	216.6664	22.02	-2.09	83116.580	3.0	129256.000	4.0
216.4105	27.01	-3.66	22009.230	4.0	68203.200	5.0	216.6674	25.01	-0.89	39813.380	2.0	85952.600	3.0
216.4112	25.02	-3.37	89052.440	3.5	135246.270	2.5	216.6689	28.01	-0.11	68735.980	2.5	114874.680	2.5
216.4170	25.01	-4.82	27588.230	3.0	73780.810	3.0	216.6707	23.02	-0.25	99508.500	1.5	145647.060	1.5
216.4178	26.02	-3.34	136200.130	3.0	182392.550	2.0	216.6712	26.01	-0.64	31999.120	3.5	78137.530	3.5
216.4208	25.01	-5.53	27589.030	2.0	73780.810	3.0	216.6745	25.02	-4.20	97023.800	3.5	143161.500	4.5
216.4267	26.02	-2.81	135582.080	6.0	181772.590	6.0	216.6757	10.01	-4.89	292651.320	1.5	338788.760	0.5
216.4287	17.01	-4.26	128662.500	2.0	174852.600	2.0	216.6771	26.00	-0.29	0.0000	4.0	46137.140	3.0
216.4309	26.02	-3.31	140693.360	3.0	186882.980	3.0	216.6774	24.01	-1.61	20512.620	2.5	66649.710	1.5
216.4310	26.01	-1.94	38858.960	2.5	85048.560	1.5	216.6791	26.01	-3.28	50142.930	2.5	96279.650	2.5
216.4337	26.01	-1.41	13474.430	2.5	59663.450	1.5	216.6829	26.00	-4.06	0.0000	4.0	46135.920	5.0
216.4339	11.05	-3.59	873287.000	2.0	919476.000	2.0	216.6836	20.02	-2.98	347417.050	3.0	393552.810	3.0
216.4384	18.01	-3.16	161089.310	0.5	207277.350	1.5	216.6867	29.01	-2.71	71531.500	3.0	117666.600	4.0
216.4388	26.00	-2.62	8154.713	1.0	54342.640	2.0	216.6900	76.00	1.01	4113.534	0.0	50262.410	0.0
216.4390	26.02	-0.53	42896.900	3.0	89084.790	3.0	216.6958	26.02	-0.72	73849.100	1.0	119982.260	1.0
216.4391	23.02	-2.18	42371.200	1.5	88559.080	1.5	216.6975	16.01	-2.76	118146.500	1.5	164279.300	0.5
216.4479	25.02	-3.51	97023.800	3.5	143209.800	2.5	216.6998	25.00	-0.89	17451.520	2.5	63583.840	1.5
216.4524	26.00	-2.92	7728.058	3.0	53913.090	2.0	216.7033	25.01	-2.26	70706.770	1.5	116838.330	1.5
216.4536	26.01	-4.80	38660.040	3.5	84844.610	2.5	216.7145	26.02	-3.58	90483.590	3.0	136612.780	4.0
216.4550	26.00	-1.83	704.003	2.0	46888.494	2.0	216.7187	23.03	0.05	218463.600	5.0	264591.900	5.0
216.4573	28.02	-3.80	71067.000	3.0	117251.000	3.0	216.7191	9.03	-4.50	460385.800	1.0	506514.000	1.0
216.4577	13.00	-2.86	0.0000	0.5	46183.696	0.5	216.7253	28.01	-0.75	54262.630	3.5	100389.520	2.5
216.4609	26.01	-1.29	26055.400	2.5	72238.630	2.5	216.7265	23.02	-3.36	109854.870	3.5	155981.500	3.5
216.4664	24.01	-0.81	31531.620	1.5	77713.660	1.5	216.7275	26.00	-2.49	7985.783	2.0	54112.203	2.0
216.4714	25.01	-3.17	39808.140	3.0	85989.120	2.0	216.7283	9.02	-2.89	445006.130	2.5	491132.380	3.5
216.4753	25.01	-2.82	43339.100	2.0	89519.250	2.0	216.7298	28.01	0.23	55018.710	2.5	101144.630	3.5
216.4755	25.02	-3.08	132971.990	3.5	179152.090	3.5	216.7356	13.02	-3.66	167612.750	2.5	213737.440	2.5
216.4761	25.02	-2.89	33278.390	3.0	79458.380	2.0	216.7356	13.02	-2.52	167612.750	2.5	213737.440	1.5
216.4850	20.02	-4.18	347383.510	4.0	393561.590	4.0	216.7367	26.02	-3.55	135705.570	3.0	181830.020	3.0
216.4891	26.01	-6.85	25787.600	1.5	71964.810	2.5	216.7376	26.00	-2.92	7728.058	3.0	53582.330	4.0
216.4957	24.02	0.20	66222.700	5.0	112398.500	4.0	216.7385	13.02	-2.36	167613.370	3.5	213737.440	2.5
216.5010	73.01	0.88	0.0000	0.0	46189.163	0.0	216.7425	26.01	-1.20	20340.360	5.5	66463.590	5.5
216.5023	24.00	-7.26	0.0000	3.0	46174.400	3.0	216.7426	17.01	-4.60	128662.500	2.0	174785.700	1.0
216.5040	18.01	-2.25	172829.580	1.5	219003.600	2.5	216.7431	26.02	-4.49	135705.570	3.0	181828.660	2.0
216.5055	23.02	-1.81	99804.570	2.5	145978.270	2.5	216.7445	17.01	-3.90	128729.800	3.0	174852.600	3.0
216.5078	26.02	-1.97	70725.010	3.0	116898.220	2.0	216.7478	23.02	-0.62	107165.900	1.5	153288.000	1.5
216.5083	8.01	-3.56	228746.900	3.5	274920.000	2							

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
216.8475	26.02	-3.28	89907.850	4.0	136008.740	3.0	217.0876	25.01	-3.80	35004.430	3.0	81054.350	2.0
216.8487	28.01	-.28	68735.980	2.5	114836.630	3.5	217.0890	25.01	-1.77	29869.110	2.0	75916.730	2.0
216.8518	26.02	-3.57	142855.590	4.0	188955.560	3.0	217.0913	18.01	-2.97	142717.020	3.5	188766.150	2.5
216.8518	25.01	-2.95	43850.420	2.0	89950.400	3.0	217.0924	17.01	-1.52	131768.000	2.0	177816.900	2.0
216.8526	24.02	-1.39	70291.800	2.0	116391.600	2.0	217.0926	26.02	-2.85	90483.590	3.0	136532.450	2.0
216.8526	25.01	-4.65	27583.300	4.0	73683.110	4.0	217.0983	24.01	-1.98	21822.860	2.5	67870.500	1.5
216.8526	23.02	-1.15	107165.900	1.5	153265.700	.5	217.0986	24.00	-5.19	7593.160	2.0	53640.740	3.0
216.8598	26.01	-8.96	8391.920	2.5	54490.200	2.5	217.1004	25.01	-3.20	35004.430	3.0	81051.620	3.0
216.8635	27.02	-.39	125369.100	2.5	171466.600	2.5	217.1027	11.02	-1.18	417415.500	1.5	463462.200	1.5
216.8635	27.02	-.39	125369.100	2.5	171466.600	2.5	217.1032	18.01	-1.90	161048.640	1.5	207095.230	2.5
216.8644	27.02	-1.67	91715.100	2.5	137812.400	3.5	217.1035	25.02	-3.79	85077.090	4.5	131123.640	5.5
216.8656	28.01	-3.64	70635.460	2.5	116732.510	2.5	217.1046	26.02	-.66	73935.960	0.0	119982.260	1.0
216.8671	26.02	-3.58	84159.550	4.0	130256.270	5.0	217.1049	24.01	-1.08	21824.250	.5	67870.500	1.5
216.8696	25.02	-2.74	97000.800	4.5	143097.000	3.5	217.1076	24.01	-1.15	21824.820	1.5	67870.500	1.5
216.8709	24.01	-3.18	38509.070	3.5	84604.990	2.5	217.1099	24.01	-1.24	21822.860	2.5	67868.050	2.5
216.8717	26.01	-2.45	20516.980	2.5	66612.740	1.5	217.1136	24.02	-2.06	112398.500	4.0	158442.900	4.0
216.8718	24.01	-4.47	40415.340	.5	86511.080	1.5	217.1145	23.01	-2.88	9097.610	4.0	55142.010	3.0
216.8758	25.01	-4.48	27588.230	3.0	73683.110	4.0	217.1191	24.01	-.76	21824.820	1.5	67868.050	2.5
216.8763	25.00	-1.07	17451.520	2.5	63546.300	3.5	217.1244	27.02	-4.25	125227.000	3.5	171269.100	4.5
216.8776	7.01	-4.79	164610.760	1.0	210705.260	2.0	217.1286	26.02	-2.20	90423.680	2.0	136464.900	1.0
216.8827	13.00	-1.87	0.000	.5	46093.424	1.5	217.1298	26.00	-1.91	704.003	2.0	46744.975	3.0
216.8869	25.00	-1.33	17282.000	3.5	63374.530	4.5	217.1306	26.02	-3.78	140750.980	2.0	186791.780	2.0
216.8875	24.02	-2.38	112371.200	2.0	158463.600	3.0	217.1314	20.02	-.72	281862.240	2.0	327922.870	2.0
216.8882	25.02	-4.07	133059.840	3.5	179152.090	3.5	217.1401	23.02	-3.14	56922.500	2.5	102961.280	3.5
216.8903	30.02	-3.58	236560.000	0.0	282651.800	1.0	217.1403	18.01	.20	163299.470	2.5	209338.210	3.5
216.8908	26.01	-3.17	50187.950	3.5	96279.650	2.5	217.1447	9.03	.15	423606.400	1.0	469644.200	2.0
216.8910	26.01	-1.99	26170.190	5.5	72261.830	5.5	217.1451	28.01	-2.42	70748.700	.5	116786.420	.5
216.8950	17.01	-4.64	128729.800	3.0	174820.600	2.0	217.1453	24.00	-.73	8095.210	3.0	54132.880	3.0
216.8971	26.02	-3.28	135735.310	5.0	181825.670	2.0	217.1472	26.02	-2.86	135735.310	5.0	181772.590	6.0
216.9005	28.01	-1.72	70748.700	.5	116838.330	1.5	217.1482	23.02	-3.22	99941.200	3.5	145978.270	2.5
216.9049	27.01	-5.09	950.300	3.0	47039.000	3.0	217.1535	28.01	-1.94	54557.050	4.5	100592.980	3.5
216.9086	28.02	-2.14	136964.800	3.0	183052.700	4.0	217.1548	24.01	-1.16	21824.250	.5	67859.910	.5
216.9092	28.01	.09	9330.040	3.5	55417.830	3.5	217.1552	24.00	-.86	7927.470	2.0	53963.050	1.0
216.9131	18.01	-3.66	158428.030	.5	204515.000	.5	217.1556	8.01	-2.44	228746.900	3.5	274782.400	3.5
216.9177	26.01	-2.20	21430.390	5.5	67516.370	5.5	217.1559	14.02	-.50	204330.790	2.0	250366.220	3.0
216.9182	25.01	-4.98	37847.900	2.0	83933.770	3.0	217.1563	20.02	.08	282571.430	1.0	328606.780	2.0
216.9212	8.01	-4.14	211712.660	2.5	257797.900	1.5	217.1566	26.01	-2.23	39013.280	1.5	85046.560	1.5
216.9242	27.02	-2.06	78927.800	3.5	125012.400	4.5	217.1569	26.00	-3.54	7728.058	3.0	53763.280	3.0
216.9261	27.00	-4.70	5075.830	1.5	51160.030	2.5	217.1575	24.01	-1.91	21824.820	1.5	67859.910	.5
216.9275	25.00	-2.50	0.000	2.5	46083.890	1.5	217.1612	27.02	-1.94	126549.300	3.5	172583.600	3.5
216.9328	26.02	-2.24	89907.850	4.0	135990.620	4.0	217.1612	27.02	-1.94	126549.300	3.5	172583.600	3.5
216.9328	26.02	-3.23	89907.850	5.0	135990.620	4.0	217.1612	27.02	-1.99	126549.300	3.5	172583.600	3.5
216.9335	25.01	-4.38	37851.150	3.0	83933.770	3.0	217.1619	26.02	-4.60	137423.000	3.0	183457.150	4.0
216.9464	20.02	-3.98	281882.240	2.0	327962.110	1.0	217.1620	25.01	-4.88	43536.900	4.0	89571.030	3.0
216.9475	28.01	-4.22	70706.770	1.5	116786.420	.5	217.1641	26.02	-4.20	137423.000	3.0	183456.690	3.0
216.9487	23.01	-3.21	30306.400	3.0	76385.800	3.0	217.1650	76.00	.71	2661.698	0.0	48709.634	0.0
216.9496	30.02	-1.61	208041.300	2.0	254120.500	3.0	217.1668	26.02	-1.70	135739.470	6.0	181772.590	6.0
216.9497	26.01	-4.44	38858.960	2.5	84938.130	1.5	217.1707	28.02	-2.50	137020.400	5.0	183052.700	4.5
216.9543	22.02	-2.43	83795.700	1.0	129873.900	2.0	217.1716	27.00	-5.52	0.000	4.5	46032.100	4.5
216.9567	28.01	-1.11	53365.170	4.5	99442.860	4.5	217.1743	20.02	-1.49	324110.240	4.0	370141.770	5.0
216.9570	23.01	-3.97	8640.210	2.0	54717.850	1.0	217.1843	25.01	-4.09	29889.310	3.0	75918.730	2.0
216.9610	25.01	-4.43	32836.400	1.0	78913.170	2.0	217.2016	28.01	-2.63	70706.770	1.5	116732.510	2.5
216.9670	27.02	-2.12	78927.800	3.5	125003.300	2.5	217.2046	26.01	-1.07	38660.040	3.5	84685.160	3.5
216.9674	23.01	-4.90	8640.210	2.0	54715.630	2.0	217.2084	25.01	-4.27	37851.150	3.0	83875.460	4.0
216.9712	26.02	-2.98	93388.750	4.0	139463.360	5.0	217.2108	28.02	-3.69	97841.400	2.0	143865.200	3.0
216.9712	25.02	-4.94	130895.390	4.5	176970.010	5.5	217.2143	26.00	-2.49	704.003	2.0	46727.055	2.0
216.9770	26.02	-2.54	135735.310	5.0	181808.700	5.0	217.2143	18.01	-2.85	144709.910	.5	190732.970	.5
216.9773	25.02	.57	85346.720	6.5	131420.030	6.5	217.2180	27.00	-2.41	4690.180	2.5	50712.450	2.5
216.9779	25.02	-.61	97023.800	3.5	143097.000	3.5	217.2222	24.00	-1.88	8307.570	4.0	54328.950	3.0
216.9821	25.00	-1.08	17451.520	2.5	63523.820	2.5	217.2240	27.02	-.67	85517.300	5.5	131536.300	4.5
216.9842	13.00	-2.56	112.061	1.5	46183.896	.5	217.2259	27.01	-3.62	17771.500	3.0	63792.100	4.0
216.9864	26.01	-6.83	23031.300	1.5	69102.690	2.5	217.2292	24.02	-2.90	113355.700	2.0	159375.600	3.0
216.9866	26.01	-2.44	20340.360	5.5	66411.700	6.5	217.2333	26.00	-3.83	7985.783	2.0	54004.820	3.0
216.9894	28.01	-2.16	52205.950	3.5	98276.700	4.5	217.2452	27.02	-4.02	125012.400	4.5	171028.900	5.5
216.9909	29.01	-2.40	88605.160	1.0	134675.600	2.0	217.2481	8.01	-2.50	228723.300	2.5	274739.200	2.5
216.9931	26.00	-1.47	8154.713	1.0	54224.680	1.0	217.2485	26.02	-2.83	136464.900	1.0	182480.720	2.0
216.9944	25.02	.01	94707.200	4.5	140776.880	5.5	217.2506	25.00	-2.15	17568.480	1.5	63583.840	1.5
216.9955	28.01	.34	54262.630	3.5	100332.090	4.5	217.2551	24.01	-3.92	30864.610	2.5	76879.030	3.5
216.9966	26.02	-2.81	135739.470	6.0	181808.700	5.0	217.2575	24.02	-1.42	63420.300	3.0	109434.200	2.0
216.9981	26.01	-3.62	38458.990	4.5	84527.890	4.5	217.2586	26.00	-1.68	888.132	1.0	46901.808	1.0
216.9990	82.00	-.05	0.000	0.0	46083.162	0.0	217.2613	23.03	-1.10	218100.000	4.0	264113.100	4.0
217.0017	27.00	-3.91	4142.660	3.5	50210.800	4.5	217.2634	18.01	-2.28	155708.020	.5	201720.670	1.5
217.0063	23.01	-2.20	30318.630	4.0	76385.800	3.0	217.2666	25.02	-4.20	100054.100	.5	146068.070	1.5
217.0075	27.02	-3.65	125012.400	4.5	171079.300	3.5	217.2671	26.01	-1.85	38858.960	2.5	84870.840	2.5
217.0075	27.02	-3.65	125012.400	4.5	171079.300	3.5	217.2711	20.02	-2.53	282571.430	1.0	328582.450	1.0
217.0075	27.02	-4.71	125012.400	4.5	171079.300	3.5	217.2851	26.02	-4.03	89697.520	3.0	135705.570	3.0
217.0080	19.02	-2.97	243448.200	1.5	289515.000	1.5	217.2901	27.01	-2.67	4028.900	4.0	50035.900	3.0
217.0084	26.01	-3.90	50212.930	2.5	96279.650	2.5	217.2911	25.00	-3.81	17282.000	3.5	63288.780</	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
217.3856	17.01	-2.06	131767.400	0.0	177754.200	1.0	217.6711	25.01	-2.89	39808.140	3.0	85734.620	3.0
217.3856	11.02	-1.56	414281.000	2.5	460267.800	3.5	217.6741	26.02	-3.98	140453.100	3.0	186378.940	4.0
217.3877	26.01	-2.86	62662.300	5.5	108648.640	6.5	217.6788	26.01	-3.77	39013.280	1.5	84938.130	1.5
217.3884	17.01	-2.02	131768.000	2.0	177754.200	1.0	217.6795	28.01	-1.21	53634.620	1.5	99559.330	2.5
217.3889	23.03	-1.10	217836.300	3.0	263822.400	4.0	217.6832	29.01	-4.12	85388.770	2.0	131312.700	3.0
217.3901	26.01	-3.68	38858.960	2.5	84844.810	2.5	217.6841	26.00	-1.96	978.076	0.0	46901.808	1.0
217.3919	11.01	-2.24	308864.540	0.0	354850.000	1.0	217.6845	25.01	-1.99	38720.200	6.0	84643.860	6.0
217.3953	26.01	-3.37	23317.600	2.5	69302.350	1.5	217.6882	25.02	.48	85200.760	5.5	131123.640	5.5
217.4028	26.01	-4.34	25981.650	3.5	71964.810	2.5	217.6886	30.02	-2.59	237047.800	2.0	282970.600	3.0
217.4071	13.00	-1.62	112.061	1.5	46094.316	2.5	217.6923	23.01	-4.18	2808.760	3.0	48730.760	4.0
217.4075	25.02	-3.29	131287.180	.5	177269.340	1.5	217.6924	26.02	-2.85	89783.590	4.0	135705.570	3.0
217.4113	13.00	-2.57	112.061	1.5	46093.424	1.5	217.6959	25.01	-2.72	39813.380	2.0	85734.620	3.0
217.4130	25.02	.52	90440.500	4.5	136421.500	5.5	217.6969	27.00	-2.74	4690.180	2.5	50611.220	3.5
217.4136	25.02	-2.64	100085.200	1.5	146066.070	1.5	217.7029	26.01	-1.27	18886.750	.5	64806.520	.5
217.4172	26.00	-1.77	8154.713	1.0	54134.820	2.0	217.7055	25.02	-4.27	132897.740	2.5	178816.960	2.5
217.4182	20.02	-3.85	325467.670	2.0	371447.580	1.0	217.7077	28.01	-2.45	54557.050	4.5	100475.820	3.5
217.4191	22.02	-2.10	83116.580	3.0	129096.300	3.0	217.7078	25.01	-3.19	36274.290	2.0	82193.040	2.0
217.4330	28.01	-.43	68965.650	1.5	114942.420	1.5	217.7086	28.01	-.24	24788.200	1.5	70706.770	1.5
217.4333	24.02	-1.27	112466.200	3.0	158442.900	4.0	217.7130	28.00	-2.93	3409.925	2.0	49327.560	3.0
217.4396	28.01	-.34	53365.170	4.5	99340.550	3.5	217.7161	23.03	-2.72	100200.700	2.0	146117.700	1.0
217.4413	10.03	-.41	478701.000	.5	524676.000	1.5	217.7167	28.01	-4.55	70358.940	4.5	116275.810	3.5
217.4460	11.02	.24	418418.100	1.5	464392.100	2.5	217.7195	23.01	-6.35	20242.320	4.0	66158.600	4.0
217.4466	27.02	-2.25	83773.400	1.5	129747.300	2.5	217.7222	28.02	-4.63	98238.200	4.0	144153.900	4.0
217.4482	28.00	-.92	1713.080	1.0	47686.625	0.0	217.7260	18.02	.08	204797.370	3.0	250712.270	2.0
217.4550	16.01	-3.74	118146.500	1.5	164118.600	.5	217.7275	23.02	-1.48	56160.420	2.5	102075.000	2.5
217.4551	27.01	-4.46	.0000	4.0	45972.100	3.0	217.7303	23.01	-3.32	30306.400	3.0	76220.400	2.0
217.4583	18.01	-.55	150147.620	2.5	196119.020	3.5	217.7314	25.02	-2.86	48981.630	3.5	130895.390	4.5
217.4594	27.00	-.31	.0000	4.5	45971.190	3.5	217.7322	23.01	-4.13	19902.600	0.0	65816.200	1.0
217.4616	26.00	-7.04	6928.266	5.0	52898.980	5.0	217.7327	26.00	-5.76	.0000	4.0	45913.480	3.0
217.4650	26.02	-.11	73727.640	2.0	119697.640	2.0	217.7361	28.01	-.24	24835.930	.5	70748.700	.5
217.4669	28.01	.04	9330.040	3.5	55299.650	4.5	217.7386	26.02	-3.88	136532.450	2.0	182444.700	3.0
217.4748	26.01	-2.66	62662.300	5.5	108630.240	5.5	217.7393	26.02	-4.15	137544.600	2.0	183456.690	3.0
217.4763	25.01	-5.92	29951.120	1.0	75918.730	2.0	217.7431	14.00	-2.01	15394.370	0.0	61305.670	1.0
217.4818	24.00	-7.74	.0000	3.0	45966.450	2.0	217.7464	27.02	-3.39	126892.100	3.5	172602.700	2.5
217.4820	26.02	-4.26	142047.000	4.0	188013.400	4.0	217.7521	26.01	-4.73	26055.400	2.5	71964.810	2.5
217.4850	26.01	-1.19	21308.080	1.5	67273.860	1.5	217.7529	28.01	-.15	68965.650	1.5	114874.880	2.5
217.4879	25.01	-3.83	33147.390	5.0	79112.560	5.0	217.7539	26.01	-2.52	26352.800	4.5	72261.830	5.5
217.4934	27.01	-3.59	19189.900	4.0	65153.900	4.0	217.7549	27.02	-4.64	127224.700	.5	173133.500	1.5
217.4944	27.01	-3.22	4950.000	2.0	50913.800	2.0	217.7621	27.02	-2.02	83799.600	2.5	129706.900	3.5
217.4946	25.02	-4.73	130731.310	3.5	176695.060	4.5	217.7686	23.01	-5.52	17910.980	4.0	63816.900	3.0
217.4970	25.02	-.92	89898.080	.5	135861.320	1.5	217.7694	26.00	-2.99	7985.783	2.0	53891.540	3.0
217.4971	29.01	.47	71919.930	3.0	117883.140	4.0	217.7697	12.02	0.00	431530.000	1.0	477435.700	2.0
217.5051	23.02	-4.44	99941.200	3.5	145902.730	4.5	217.7710	10.02	-.16	353177.160	2.0	399082.570	1.0
217.5074	26.02	-4.52	140750.980	2.0	186712.020	1.0	217.7745	24.01	-2.81	31083.110	1.5	76987.780	2.5
217.5082	23.01	-3.73	20343.000	2.0	66303.880	3.0	217.7808	26.02	-3.03	173527.920	4.0	183431.280	5.0
217.5100	28.01	-1.16	24788.200	1.5	70748.700	.5	217.7829	30.02	-2.08	237047.800	2.0	282950.700	2.0
217.5112	26.01	-2.08	26170.190	5.5	72130.440	4.5	217.7847	28.01	-1.67	54176.260	.5	100078.780	1.5
217.5133	27.02	-4.44	124765.900	5.5	170725.700	6.5	217.7868	6.00	-1.39	73975.910	0.0	119878.000	1.0
217.5142	28.01	.03	10115.660	2.5	56075.260	2.5	217.8030	73.01	1.27	3145.643	0.0	49058.693	0.0
217.5237	28.02	-1.56	85834.800	5.0	131792.400	4.0	217.8062	25.02	-3.45	131287.180	.5	177185.180	.5
217.5237	17.02	-2.37	209182.800	1.5	255140.400	2.5	217.8077	26.00	-.51	415.932	3.0	46313.610	2.0
217.5240	77.00	.53	.0000	0.0	45971.939	0.0	217.8098	25.02	-2.73	94397.200	3.5	140294.440	3.5
217.5242	26.00	-3.55	8154.713	1.0	54112.203	2.0	217.8109	27.02	-1.21	85474.100	6.5	131371.100	5.5
217.5261	24.02	-2.80	112371.200	2.0	158328.300	2.0	217.8119	26.00	-2.25	704.003	2.0	46600.800	1.0
217.5344	25.00	-1.01	17568.480	1.5	63523.820	2.5	217.8170	77.00	.28	.0000	0.0	45910.099	0.0
217.5389	28.01	-1.52	70778.120	3.5	116732.510	2.5	217.8207	18.02	-3.60	226355.960	2.0	272250.900	3.0
217.5443	8.02	-3.03	324462.460	2.0	370415.700	1.0	217.8302	23.01	-4.55	2687.010	2.0	48579.960	3.0
217.5450	26.01	-.79	16369.390	3.5	62322.500	3.5	217.8351	25.01	-4.33	43536.900	4.0	89428.800	3.0
217.5458	23.01	-4.22	30267.460	2.0	76220.400	2.0	217.8454	25.02	-2.77	97271.760	5.5	143161.500	4.5
217.5479	25.02	-.98	90936.220	1.5	136888.700	1.5	217.8469	24.01	-1.39	39684.000	3.5	85573.420	3.5
217.5497	26.00	-1.57	7376.762	4.0	53328.670	4.0	217.8510	27.00	-5.37	4690.180	2.5	50578.730	3.5
217.5502	18.01	-1.55	163299.470	2.5	209251.460	3.5	217.8584	24.01	-1.31	45669.540	1.5	91556.540	1.5
217.5511	19.02	-1.81	243448.200	1.5	289400.000	2.5	217.8586	20.02	0.00	282075.150	0.0	327962.110	1.0
217.5515	26.02	-3.86	89783.590	4.0	135735.310	5.0	217.8671	10.02	-.61	353197.400	1.0	399082.570	1.0
217.5542	25.01	-.93	39808.140	3.0	85759.300	4.0	217.8673	26.02	-1.60	88663.870	4.0	134549.000	3.0
217.5563	26.02	-3.28	93512.640	4.0	139463.360	5.0	217.8688	23.01	-4.12	2568.220	4.0	48853.040	5.0
217.5597	27.02	-2.47	86327.100	3.5	132277.100	3.5	217.8746	25.02	-.96	94397.200	3.5	140280.800	4.5
217.5621	56.01	-5.10	.0000	0.0	45963.888	0.0	217.8803	26.00	-1.58	7728.058	3.0	53610.440	4.0
217.5639	18.01	-.10	149179.170	3.5	195128.270	4.5	217.8851	26.01	-4.97	15844.710	4.5	61726.090	3.5
217.5640	18.01	-.38	163299.470	2.5	209248.550	2.5	217.8917	26.02	-4.74	141002.990	4.0	186882.980	3.0
217.5677	28.01	-2.23	55417.830	3.5	101366.140	2.5	217.8944	29.00	-.70	.0000	0.0	45893.791	0.0
217.5679	26.02	-1.57	136532.450	2.0	182480.720	2.0	217.8992	23.01	-5.42	20280.190	5.0	66158.600	4.0
217.5687	24.00	-7.21	7593.160	2.0	33541.250	2.0	217.9041	24.00	-4.79	7927.470	2.0	53804.840	3.0
217.5706	27.02	-4.18	83799.600	2.5	129747.300	2.5	217.9049	27.02	-3.75	127317.700	3.5	173194.900	2.5
217.5721	26.01	-4.35	18886.750	.5	64834.120	1.5	217.9066	24.01	-2.16	35356.060	1.5	81232.910	2.5
217.5740	25.02	-2.08	133736.640	5.5	179683.610	4.5	217.9076	26.02	-2.33	82494.880	1.0	128371.530	0.0
217.5747	23.02	-4.06	98825.190	3.5	144772.020	3.5	217.9085	26.02	-2.40	136532.450	2.0	182408.910	3.0
217.5754	25.00	-1.15	17637.150	.5	63583.840	1.5	217.9111	28.01	-.50	67031.020	.5	112906.930	1.5
217.5769	28.01												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
218.0015	26.02	-2.63	89697.520	3.0	135554.410	4.0	218.2475	24.01	-2.06	25047.040	2.5	70852.240	3.5
218.0060	27.00	-1.38	816.000	3.5	46671.940	2.5	218.2587	27.00	-6.51	1809.330	1.5	47612.180	1.5
218.0065	25.02	.09	94707.200	4.5	140563.030	3.5	218.2613	23.03	-.95	218100.000	4.0	263902.300	3.0
218.0084	18.01	-1.50	158730.210	2.5	204585.640	2.5	218.2634	8.01	-1.34	212161.940	1.5	257965.800	2.5
218.0109	20.02	-2.96	324660.470	3.0	370515.360	3.0	218.2642	27.02	-2.34	79425.300	2.5	125227.000	3.5
218.0162	27.02	-3.13	85517.300	5.5	131371.100	5.5	218.2705	25.01	-4.00	29919.220	2.0	75719.590	1.0
218.0208	26.00	-1.60	7985.763	2.0	53838.600	3.0	218.2710	73.01	1.26	967.890	0.0	46782.497	0.0
218.0233	27.02	-4.02	125227.000	3.5	171079.300	3.5	218.2721	23.02	-4.49	110181.470	2.5	155981.500	3.5
218.0233	27.02	-4.02	125227.000	3.5	171079.300	3.5	218.2729	26.02	-2.06	136612.780	4.0	182412.650	4.0
218.0249	18.01	-2.56	149179.170	3.5	195031.120	2.5	218.2739	25.02	-2.70	130895.390	4.5	176695.060	4.5
218.0261	26.01	-1.76	38858.960	2.5	84710.660	3.5	218.2757	25.00	-3.46	17282.000	3.5	63081.280	2.5
218.0279	25.01	-2.14	44745.460	2.0	90596.800	2.0	218.2762	25.00	-2.37	17052.290	4.5	62851.470	3.5
218.0320	25.01	-2.89	29869.110	2.0	75719.590	1.0	218.2771	9.03	-.60	612830.000	2.0	658629.000	1.0
218.0330	25.02	-2.13	94707.200	4.5	140557.460	4.5	218.2790	11.02	-1.44	366165.300	2.5	411963.900	1.5
218.0358	18.01	-2.14	159393.310	1.5	205242.970	1.5	218.2815	23.01	-3.41	19132.690	2.0	64930.760	1.0
218.0377	27.00	-3.89	5075.830	1.5	50925.110	1.5	218.2838	29.01	-1.04	69867.810	2.0	115665.400	1.0
218.0412	26.02	-.56	73849.100	1.0	119697.640	2.0	218.2845	18.01	-3.75	144709.910	1.5	190507.360	1.5
218.0473	28.01	.08	24788.200	1.5	70635.460	2.5	218.2881	26.02	-4.67	142312.900	3.0	188109.580	3.0
218.0515	25.02	-2.79	131123.640	5.5	176970.010	5.5	218.2894	26.02	-2.52	77102.430	2.0	122898.840	2.0
218.0529	26.02	-3.08	77075.300	1.0	122921.370	1.0	218.2900	74.00	.15	6129.972	0.0	51940.591	0.0
218.0581	28.01	-3.88	55299.650	4.5	101144.630	3.5	218.2907	26.02	-2.75	136612.780	4.0	182408.910	3.0
218.0582	25.02	-4.54	132971.990	3.5	178816.960	2.5	218.2908	25.01	-3.61	27589.030	2.0	73385.150	1.0
218.0604	27.01	-.50	17771.500	3.0	63616.000	2.0	218.2912	28.01	-1.69	92325.850	3.5	138121.880	4.5
218.0628	15.04	-.78	345398.400	1.5	391242.400	1.5	218.2926	23.01	-3.59	20089.560	1.0	65885.300	2.0
218.0699	24.01	-4.24	20512.620	2.5	66355.130	1.5	218.2981	20.02	-1.93	347758.220	2.0	393552.810	3.0
218.0702	23.02	-3.39	99804.570	2.5	145647.000	1.5	218.3084	23.01	-3.02	16340.970	3.0	62133.390	3.0
218.0727	11.02	.11	417415.500	1.5	463257.400	2.5	218.3119	30.02	-3.19	237047.800	2.0	282839.500	3.0
218.0729	26.01	-3.37	20830.520	2.5	66672.390	3.5	218.3125	25.02	-1.68	94771.470	2.5	140563.030	3.5
218.0747	29.01	-1.84	69704.800	4.0	115546.300	5.0	218.3201	8.02	-3.19	324734.220	2.0	370524.200	2.0
218.0789	18.01	-2.33	150474.900	1.5	196315.510	2.5	218.3217	28.01	.23	53365.170	4.5	99154.810	4.5
218.0794	26.00	-6.06	6928.266	5.0	52768.780	4.0	218.3230	20.02	-3.35	328090.990	2.0	373880.370	3.0
218.0825	26.02	-3.13	98661.880	1.0	144501.740	2.0	218.3236	10.02	-1.74	353197.400	1.0	398986.640	2.0
218.0847	26.02	-3.86	135990.620	4.0	181830.020	3.0	218.3257	26.01	-6.31	16369.390	3.5	62158.190	4.5
218.0861	15.04	.17	345403.300	2.5	391242.400	1.5	218.3347	25.01	-3.03	43339.100	2.0	89126.000	3.0
218.0869	26.00	-2.45	888.132	1.0	46727.055	2.0	218.3434	26.01	-2.99	23317.600	2.5	69102.690	2.5
218.0883	10.02	.11	353148.000	3.0	398986.640	2.0	218.3467	26.00	-2.71	888.132	1.0	46672.523	0.0
218.0927	26.01	-2.55	38458.990	4.5	84296.700	5.5	218.3517	26.01	-1.83	20805.830	4.5	66589.170	4.5
218.0939	18.01	-3.75	155043.070	2.5	200880.520	3.5	218.3555	25.02	-.12	94397.200	3.5	140179.740	2.5
218.0948	25.00	-3.33	17451.520	2.5	63288.780	3.5	218.3571	26.01	-4.50	20830.520	2.5	66612.740	1.5
218.1043	23.01	-3.82	16340.970	3.0	62176.240	4.0	218.3571	26.01	-3.57	16369.390	3.5	62151.610	2.5
218.1054	26.02	-3.73	135990.620	4.0	181825.670	4.0	218.3789	26.01	-4.47	26352.800	4.5	72130.440	4.5
218.1108	28.01	-2.21	54176.260	.5	100010.170	.5	218.3796	26.00	-4.69	7985.783	2.0	53763.280	3.0
218.1118	27.01	-1.50	18031.500	2.0	63865.200	1.0	218.3796	24.02	-3.00	71321.800	3.0	117099.300	4.0
218.1122	27.00	-1.53	7442.410	3.5	53276.020	4.5	218.3822	23.01	-3.24	18353.890	3.0	64130.840	4.0
218.1140	26.00	-3.05	0.000	4.0	45833.240	4.0	218.3823	25.02	-.84	85346.720	6.5	131123.640	5.5
218.1154	28.01	-1.87	70635.460	2.5	146468.400	1.5	218.3831	26.01	-1.23	27314.930	3.5	73091.700	4.5
218.1181	24.00	-3.94	8095.210	3.0	53927.590	4.0	218.3838	25.02	-1.34	86520.940	2.5	132297.550	2.5
218.1189	18.02	-1.77	226355.960	2.0	272188.160	2.0	218.3846	26.02	-3.27	90423.680	2.0	136200.130	3.0
218.1203	26.02	-3.55	136612.780	4.0	182444.700	3.0	218.3863	27.02	-2.81	125690.500	3.5	171466.600	2.5
218.1210	18.01	-1.27	163506.450	3.5	209338.210	3.5	218.3863	27.02	-2.81	125690.500	3.5	171466.600	2.5
218.1217	26.02	-2.47	89907.850	5.0	135739.470	6.0	218.3889	25.02	-3.15	131701.690	1.5	177477.230	2.5
218.1221	26.01	-2.24	39013.280	1.5	84844.810	2.5	218.3905	28.00	-1.30	3409.925	2.0	49185.146	2.0
218.1226	18.01	.32	163506.450	3.5	209337.870	4.5	218.3913	28.01	-1.69	54557.050	4.5	100332.090	4.5
218.1243	24.01	-2.67	39742.360	2.5	85573.420	3.5	218.3992	26.02	-1.63	70694.030	5.0	116467.410	4.0
218.1284	19.02	-3.09	192082.000	2.5	237912.200	1.5	218.3992	28.01	-2.85	76402.030	2.5	122175.420	2.5
218.1316	28.01	-2.42	55417.830	3.5	101247.370	2.5	218.3996	23.02	-3.58	107165.900	1.5	152939.200	2.5
218.1340	25.01	-1.80	55759.270	3.0	101588.300	3.0	218.4058	23.03	-.41	217836.300	3.0	263608.300	3.0
218.1352	26.01	-2.87	39109.340	.5	84938.130	1.5	218.4064	18.02	-.08	226355.960	2.0	272127.820	1.0
218.1354	25.01	-2.71	36364.300	1.0	82193.040	2.0	218.4066	23.01	-1.28	30613.970	4.0	76385.800	3.0
218.1363	26.01	-2.03	27314.930	3.5	73143.480	3.5	218.4096	23.01	-5.08	2808.760	3.0	48579.960	3.0
218.1381	18.01	-1.74	159393.310	1.5	205221.470	1.5	218.4096	29.01	-3.10	69867.810	2.0	115639.020	2.0
218.1394	28.02	-2.61	138031.400	4.0	183859.300	3.0	218.4115	26.02	-1.66	89783.590	4.0	135554.410	4.0
218.1397	23.01	-5.05	11514.760	1.0	57342.590	2.0	218.4127	24.00	-3.31	8307.570	4.0	54078.130	5.0
218.1402	23.02	-4.23	109854.870	3.5	155682.600	3.5	218.4178	23.01	-1.82	19161.270	0.0	64930.760	1.0
218.1403	27.02	-2.78	126549.300	3.5	172377.000	3.5	218.4187	27.02	-3.08	124765.900	5.5	170535.200	4.5
218.1412	29.01	-.91	71919.930	3.0	117747.450	3.0	218.4187	27.02	-3.08	124765.900	5.5	170535.200	4.5
218.1415	26.02	-2.85	89907.850	4.0	135735.310	5.0	218.4187	27.02	-4.60	124765.900	5.5	170535.200	4.5
218.1415	26.02	-1.69	89907.850	5.0	135735.310	5.0	218.4196	25.01	-4.15	43696.190	3.0	89465.300	4.0
218.1475	24.02	-.46	66027.800	4.0	111854.000	5.0	218.4227	25.01	-4.15	29951.120	1.0	75719.590	1.0
218.1475	26.01	-1.68	38858.960	2.5	84685.160	3.5	218.4249	27.02	-3.15	83938.900	3.5	129706.900	3.5
218.1494	24.01	-2.35	45730.740	2.5	91556.540	1.5	218.4262	26.02	-4.54	77075.300	1.0	122845.030	1.0
218.1517	24.00	-.15	8307.570	4.0	54132.880	3.0	218.4268	28.01	-1.57	53365.170	4.5	99132.780	5.5
218.1543	24.01	-1.30	35607.600	3.5	81432.360	3.5	218.4293	26.02	-2.81	136612.780	4.0	182379.860	5.0
218.1601	26.02	-4.40	77075.300	1.0	122898.840	2.0	218.4315	27.00	-2.76	0.000	4.5	45766.630	3.5
218.1624	25.01	-3.98	43696.190	3.0	89519.250	2.0	218.4413	23.01	-2.86	19166.190	1.0	64930.760	1.0
218.1638	28.01	-3.06	52738.450	2.5	98561.220	2.5	218.4463	23.01	-3.67	18293.870	2.0	64057.390	3.0
218.1647	26.00	-2.53	7985.783	2.0	53808.370	1.0	218.4473	30.02	-1.80	238205.500	1.0	283968.800	0.0
218.1681	24.01	-.80	35610.500	4.5	81432.360	3.5	218.4510	23.01</					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
218.5218	27.02	-4.98	125992.700	2.5	171740.400	1.5	218.8095	24.00	-5.54	8095.210	3.0	53782.770	4.0
218.5219	18.02	-3.84	226503.220	3.0	272250.900	3.0	218.8121	18.01	-2.74	158730.210	2.5	204417.230	1.5
218.5227	26.00	-1.05	7985.783	2.0	53733.310	3.0	218.8127	26.02	-2.89	136793.820	2.0	182480.720	2.0
218.5267	26.02	-1.67	70728.750	4.0	116475.440	3.0	218.8129	25.01	-2.95	41182.530	7.0	86869.390	6.0
218.5345	24.01	-5.55	19798.010	2.5	65543.060	3.5	218.8130	23.01	-4.86	20617.050	2.0	66303.880	3.0
218.5347	18.01	-2.24	163506.450	3.5	209251.460	3.5	218.8149	14.01	-4.76	79338.760	1.5	125025.200	.5
218.5391	23.01	-2.42	30641.710	3.0	76385.800	3.0	218.8171	26.02	-4.74	114351.920	3.0	160037.900	2.0
218.5393	23.01	-1.40	16340.970	3.0	62085.020	2.0	218.8190	26.02	-3.76	140693.360	3.0	136378.940	4.0
218.5411	26.01	-2.72	31999.120	3.5	77742.780	2.5	218.8221	18.02	.07	226503.220	3.0	272188.160	2.0
218.5445	28.01	-4.32	76402.030	2.5	122144.990	2.5	218.8227	26.00	-5.11	6928.266	5.0	52613.072	5.0
218.5465	26.01	-3.20	15844.710	4.5	61587.240	5.5	218.8239	28.01	-1.10	76402.030	2.5	122080.580	3.5
218.5472	26.02	-1.50	70725.010	3.0	116467.410	4.0	218.8271	7.02	.59	342693.000	1.5	388376.900	2.5
218.5486	18.01	-1.69	163506.450	3.5	209248.550	2.5	218.8275	9.02	-.58	344436.960	5.5	390120.770	.5
218.5493	26.02	-3.29	105895.350	1.0	151637.300	1.0	218.8282	26.02	-3.20	136797.050	3.0	182460.720	2.0
218.5503	28.01	.31	25036.380	2.5	70778.120	3.5	218.8357	18.01	-2.59	149179.170	3.5	194861.270	2.5
218.5558	26.02	-2.99	77102.430	2.0	122843.030	1.0	218.8387	8.02	-3.82	324734.220	2.0	370415.700	1.0
218.5560	26.02	-1.78	92523.910	5.0	138264.470	6.0	218.8415	23.01	-2.67	20622.990	3.0	66303.880	3.0
218.5584	26.01	-1.99	27314.930	3.5	73054.970	2.5	218.8474	26.02	-3.58	83237.860	3.0	128917.510	2.0
218.5650	26.02	-2.10	70728.750	4.0	116467.410	4.0	218.8493	18.01	-1.23	155351.030	1.5	201030.300	.5
218.5681	29.01	-2.87	71493.680	2.0	117231.690	1.0	218.8509	25.01	-3.25	41190.470	6.0	86869.390	6.0
218.5688	27.01	-2.41	17771.500	3.0	63509.370	4.0	218.8519	14.01	-4.68	79355.280	2.5	125034.000	1.5
218.5700	70.01	-.74	0.000	0.0	45751.933	0.0	218.8520	7.02	.33	342763.700	5.5	388442.400	1.5
218.5739	27.02	-3.03	127458.100	1.5	173194.900	2.5	218.8543	28.01	.28	76402.030	2.5	122080.580	2.5
218.5739	27.02	-3.03	127458.100	1.5	173194.900	2.5	218.8604	18.02	-2.93	180679.000	1.0	226355.960	2.0
218.5739	27.02	-3.28	127458.100	1.5	173194.900	2.5	218.8607	28.01	-2.16	70635.460	2.5	116312.340	1.5
218.5858	24.00	-6.81	0.000	3.0	45734.320	2.0	218.8644	24.02	-3.81	113355.700	2.0	159011.800	2.0
218.5898	25.02	-2.84	130731.310	3.5	176464.780	3.5	218.8676	26.02	-.96	90746.060	5.5	136421.500	5.5
218.5959	22.02	-4.05	38063.500	1.0	83795.700	1.0	218.8680	26.00	-6.07	7985.783	2.0	53661.130	3.0
218.6000	18.02	-.77	240150.660	0.0	285882.000	1.0	218.8734	26.02	-1.77	89907.850	5.0	135582.060	6.0
218.6013	26.02	-2.29	105906.230	0.0	151637.300	1.0	218.8807	23.01	-5.04	18353.890	3.0	64026.000	4.0
218.6044	24.00	-.47	7810.820	1.0	53541.250	2.0	218.8818	26.01	-3.53	20340.360	5.5	66012.830	4.5
218.6122	28.01	-1.09	52738.450	2.5	98467.250	3.5	218.8862	26.02	-2.69	76956.790	3.0	122628.340	2.0
218.6139	28.01	-3.41	70358.940	4.5	116087.380	4.5	218.8863	23.02	-3.92	110181.470	2.5	155853.000	2.5
218.6202	26.02	-3.18	77102.430	2.0	122829.550	3.0	218.8868	23.01	-3.69	19132.690	2.0	64804.130	2.0
218.6215	26.01	-2.22	18360.650	1.5	64087.500	2.5	218.8918	28.01	-1.77	25036.380	2.5	70706.770	1.5
218.6217	28.01	-1.46	55417.830	3.5	101144.630	3.5	218.8959	18.01	-3.83	143371.350	1.5	189040.870	1.5
218.6225	23.01	-5.19	20089.560	1.0	65816.200	1.0	218.8993	25.01	-2.26	43850.420	2.0	89519.250	2.0
218.6251	26.00	-1.87	0.000	4.0	45726.104	5.0	218.9004	27.01	-2.23	4028.900	4.0	49697.500	4.0
218.6262	20.02	-2.92	279741.800	2.0	325467.670	2.0	218.9018	17.01	-1.75	131754.800	1.0	177423.100	1.0
218.6428	23.03	-.83	218100.000	4.0	263822.400	4.0	218.9023	24.02	-3.49	112398.500	4.0	158066.700	3.0
218.6441	27.00	-2.30	1406.840	2.5	47128.960	2.5	218.9034	26.01	-1.55	15844.710	4.5	81512.670	4.5
218.6485	26.00	-1.23	415.932	3.0	46137.140	3.0	218.9038	26.02	-3.24	144116.640	3.0	189784.520	2.6
218.6503	26.01	-3.89	47674.780	1.5	93395.600	2.5	218.9053	26.02	-3.67	137763.700	5.0	183431.260	5.0
218.6513	25.01	-3.64	43850.420	2.0	89571.030	3.0	218.9110	24.01	-2.93	30143.720	5.5	75810.100	4.5
218.6557	28.01	-2.02	70748.700	.5	116468.400	1.5	218.9141	26.02	-1.93	88694.670	5.0	134360.400	4.0
218.6576	75.02	-.51	86578.240	3.5	132297.550	2.5	218.9152	28.02	-2.59	85834.800	5.0	131500.300	5.0
218.6586	28.02	-4.45	97841.400	2.0	143560.500	2.0	218.9174	25.01	-3.31	41204.340	5.0	86869.390	6.0
218.6607	2.01	-1.17	390142.340	0.0	435875.295	0.0	218.9176	28.01	-.95	56075.260	2.5	101740.270	3.5
218.6660	18.02	-.14	240291.660	2.0	286009.210	2.0	218.9185	26.00	-3.53	11976.239	4.0	57641.060	3.0
218.6708	26.02	-2.83	90483.590	3.0	136200.130	3.0	218.9188	20.02	-2.01	327962.110	1.0	373626.850	2.0
218.6734	28.01	-.98	75721.680	5.5	121437.680	5.5	218.9205	8.01	-4.50	229946.600	2.5	275611.000	1.5
218.6786	27.00	-.77	3482.820	4.5	49197.740	4.5	218.9230	24.01	-1.34	35569.020	2.5	81232.910	2.5
218.6819	23.02	-4.49	109854.870	3.5	155569.100	2.5	218.9234	24.02	-3.05	108793.300	3.0	154457.100	4.0
218.6826	28.01	-.41	76694.640	2.5	113408.710	1.5	218.9292	25.00	-4.01	17451.520	2.5	63114.110	1.5
218.6840	26.01	-1.93	16369.390	3.5	62083.170	4.5	218.9329	9.03	-.75	451819.600	1.0	497481.400	1.0
218.6865	24.00	-.41	7927.470	2.0	53640.740	3.0	218.9350	27.00	-2.01	7442.410	3.5	53103.780	3.5
218.6892	27.02	-3.50	126870.900	2.5	172983.600	3.5	218.9350	29.01	-1.56	68850.060	4.0	114511.440	1.0
218.6892	27.02	-3.50	126870.900	2.5	172583.600	3.5	218.9381	24.00	-3.86	20519.600	6.0	66180.340	5.0
218.6892	27.02	-3.75	126870.900	2.5	172583.600	3.5	218.9389	25.02	-3.87	132897.740	2.5	178558.300	1.5
218.6893	26.00	-3.63	888.132	1.0	46600.800	1.0	218.9421	8.01	-1.41	232480.100	.5	278140.000	1.5
218.6893	28.01	-.54	67694.640	2.5	113407.310	2.5	218.9437	23.01	-5.28	20156.640	0.0	65816.200	1.0
218.6894	23.01	-4.02	30673.140	2.0	76385.800	3.0	218.9438	24.01	-4.74	31219.490	4.5	76879.030	3.5
218.6902	18.02	-3.17	226355.960	2.0	272068.450	1.0	218.9485	18.01	-3.69	143107.600	2.5	188766.150	2.5
218.6921	26.02	-2.08	136117.940	2.0	181830.020	3.0	218.9497	28.01	-.26	53496.490	5.5	99154.810	4.5
218.6928	25.02	-2.03	91948.300	3.5	137660.240	3.5	218.9524	26.01	-4.38	20805.830	4.5	66463.590	5.5
218.6931	23.01	-2.04	16421.510	4.0	62133.390	3.0	218.9526	27.02	-4.82	125421.600	4.5	171079.300	3.5
218.6937	28.00	-1.33	1713.080	1.0	47424.830	1.0	218.9526	27.02	-4.82	125421.600	4.5	171079.300	3.5
218.6970	24.01	-3.36	40228.440	5.5	85939.500	4.5	218.9560	10.03	-.77	648060.000	1.5	693717.000	1.5
218.6987	26.02	-2.94	136117.940	2.0	181828.660	2.0	218.9609	24.01	-3.91	20024.180	3.5	55680.150	4.5
218.7039	24.00	-5.29	8095.210	3.0	53804.840	3.0	218.9622	17.01	-2.25	131767.400	0.0	177423.100	1.0
218.7054	27.01	-2.34	5204.500	1.0	50913.800	2.0	218.9630	29.01	-.25	26264.400	2.0	71919.930	3.0
218.7116	25.01	-2.78	38720.200	6.0	84428.210	5.0	218.9651	17.01	-1.48	131768.000	2.0	177423.100	1.0
218.7195	26.00	-.97	704.003	2.0	46410.366	1.0	218.9685	27.02	-1.78	82363.300	4.5	128017.700	3.5
218.7282	27.00	-5.66	8660.810	2.5	54165.350	1.5	218.9693	25.02	-.84	85077.090	4.5	130731.310	3.5
218.7288	27.00	-1.48	4142.660	3.5	49847.080	2.5	218.9697	26.01	-1.53	38214.500	1.5	83866.650	2.5
218.7288	26.01	-.60	38164.240	2.5	83868.650	2.5	218.9713	26.01	-2.69	47674.780	1.5	93328.000	1.5
218.7316	18.01	-1.50	149179.170	3.5	194883.000	3.5	218.9718	23.01	-4.59	20343.000	2.0	65996.700	3.0
218.7320	28.01	-.68	92792.080	3.5	138495.840	4.5	218.9720	26.00	-2.87				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
219.0538	27.00	-5.08	5075.830	1.5	50712.450	2.5	219.3567	25.02	-4.63	94707.200	4.5	140280.800	4.5
219.0554	28.01	.25	53496.490	5.5	99132.780	5.5	219.3567	18.02	-1.16	240257.590	1.0	285831.200	0.0
219.0569	8.01	-1.58	212161.940	1.5	257797.900	1.5	219.3589	24.00	-4.59	20520.920	3.0	66094.060	4.0
219.0626	25.01	-2.01	33278.390	3.0	78913.170	2.0	219.3615	27.01	.10	17771.500	3.0	63344.100	3.0
219.0647	26.02	-2.52	90483.590	3.0	136117.940	2.0	219.3666	26.01	-4.82	20805.830	4.5	66377.370	3.5
219.0688	27.01	-2.22	18031.500	2.0	63665.000	1.0	219.3672	25.02	-1.64	131123.640	5.5	176695.060	4.5
219.0793	24.02	.45	66222.700	5.0	111854.000	5.0	219.3682	25.00	-3.85	17568.480	1.5	63139.700	2.5
219.0861	26.02	-3.06	136200.130	3.0	181830.020	3.0	219.3695	24.01	-2.97	21822.860	2.5	67393.800	3.5
219.0867	25.00	-4.52	17451.520	2.5	63081.280	2.5	219.3711	17.02	-2.83	209042.100	5.5	254612.700	1.5
219.0900	7.01	-4.36	164610.760	1.0	210239.830	1.0	219.3735	24.00	-4.22	20523.940	5.0	66094.060	4.0
219.0915	24.01	-1.44	34659.480	.5	80288.250	1.5	219.3766	25.00	-2.95	17282.000	3.5	62851.470	3.5
219.0966	28.01	-.92	23108.280	2.5	68735.980	2.5	219.3770	25.02	-1.74	130895.390	4.5	176464.780	3.5
219.1000	28.02	-2.24	98238.200	4.0	143865.200	3.0	219.3800	26.01	-3.57	27620.390	2.5	73189.160	1.5
219.1024	24.02	-3.40	108459.200	2.0	154085.700	3.0	219.3803	11.02	-.78	399179.400	2.5	444748.100	1.5
219.1070	26.02	-1.97	136200.130	3.0	181825.670	4.0	219.3824	25.01	-3.53	43528.300	5.0	89096.560	4.0
219.1077	23.02	-1.42	56160.420	2.5	101785.810	1.5	219.3839	23.01	-7.23	3162.800	5.0	48730.760	4.0
219.1081	24.01	-2.35	35607.600	3.5	81232.910	2.5	219.3854	25.02	-3.37	131701.690	1.5	177269.340	1.5
219.1124	18.02	-.84	240257.590	1.0	285882.000	1.0	219.3856	19.02	-1.37	243947.400	1.5	289515.000	1.5
219.1147	18.01	-2.35	163299.470	2.5	208923.410	2.5	219.3880	73.01	1.64	6129.972	0.0	51711.316	0.0
219.1166	26.02	-3.36	136185.170	5.0	181808.700	5.0	219.3962	11.02	-0.00	399182.700	1.5	444748.100	1.5
219.1205	26.00	-2.62	978.076	0.0	46600.800	1.0	219.4008	24.01	-2.37	21822.860	2.5	67387.300	2.5
219.1206	20.02	-1.03	277380.860	2.0	323003.560	1.0	219.4047	28.01	-1.41	70748.700	.5	116312.340	1.5
219.1208	28.00	-2.56	3409.925	2.0	49032.589	2.0	219.4073	29.02	-4.45	147805.900	3.5	193369.000	4.5
219.1211	26.02	-1.66	70694.030	5.0	116316.630	5.0	219.4080	26.00	-4.39	0.000	4.0	45562.959	3.0
219.1213	29.01	-1.94	88362.030	2.0	133984.600	3.0	219.4103	24.01	-3.47	21824.820	1.5	67387.300	2.5
219.1222	27.01	-4.21	24074.600	2.0	69696.970	3.0	219.4105	26.02	-4.12	144116.640	3.0	189679.070	3.0
219.1253	18.01	-1.43	163299.470	2.5	208921.200	1.5	219.4157	26.01	-2.58	20516.980	2.5	66078.340	2.5
219.1257	26.02	-2.18	136797.050	3.0	182418.700	4.0	219.4222	27.02	-4.18	86327.100	3.5	131887.100	4.5
219.1276	25.02	-2.95	132937.060	.5	178558.300	1.5	219.4232	24.01	-4.47	30156.940	3.5	75716.740	3.5
219.1283	24.02	-.18	63172.200	2.0	108793.300	3.0	219.4236	25.01	-3.59	39808.140	3.0	85367.850	2.0
219.1288	18.01	-1.13	149179.170	3.5	194800.180	4.5	219.4237	27.02	-2.93	126381.800	1.5	171941.500	.5
219.1330	23.02	-2.71	110181.470	2.5	155801.600	1.5	219.4237	27.02	-2.93	126381.800	1.5	171941.500	.5
219.1335	24.00	-4.69	8307.570	4.0	53927.590	4.0	219.4239	25.01	-3.12	43536.900	4.0	89096.560	4.0
219.1384	24.02	-1.39	71868.500	6.0	117487.500	6.0	219.4288	26.02	-3.97	83358.880	2.0	128917.510	2.0
219.1407	25.00	-2.47	17052.290	4.5	62670.810	4.5	219.4306	25.02	-3.01	100085.200	1.5	145643.450	2.5
219.1539	28.00	-3.03	1713.080	1.0	47328.850	2.0	219.4324	26.01	-5.39	25428.800	5.5	70986.690	6.5
219.1547	26.02	-3.25	136797.050	3.0	182412.650	4.0	219.4364	24.01	-1.54	21822.860	2.5	67379.920	1.5
219.1552	24.02	.32	66027.800	4.0	111643.300	4.0	219.4376	27.02	-2.23	86327.100	3.5	131887.100	2.5
219.1572	26.02	-2.11	136793.820	2.0	182408.910	3.0	219.4390	76.01	1.88	3548.931	0.0	49119.682	0.0
219.1578	18.01	-1.17	150474.900	1.5	196089.870	2.5	219.4404	29.01	-4.78	85388.770	2.0	130945.000	2.0
219.1635	24.00	-.62	7927.470	2.0	53541.250	2.0	219.4414	28.01	-1.57	70635.460	2.5	116191.470	2.5
219.1640	77.00	.04	2823.013	0.0	48450.945	0.0	219.4431	24.01	-1.96	21824.250	.5	67379.920	1.5
219.1651	23.02	-2.61	42267.400	2.5	87880.650	2.5	219.4439	27.01	-1.84	18031.500	2.0	63587.000	3.0
219.1658	8.01	-2.08	232526.700	1.5	278140.000	1.5	219.4458	24.01	-1.84	21824.820	1.5	67379.920	1.5
219.1658	8.01	-1.16	232526.700	1.5	278140.000	2.5	219.4461	28.01	-2.77	70706.770	1.5	116261.810	.5
219.1703	25.01	-4.11	29951.120	1.0	75563.490	0.0	219.4489	25.01	-3.11	39813.380	2.0	85367.850	2.0
219.1727	26.02	-1.74	136797.050	3.0	182408.910	3.0	219.4490	50.00	.26	3387.616	0.0	48956.290	0.0
219.1733	23.01	-8.13	2968.220	4.0	48579.960	3.0	219.4520	74.01	.51	0.000	0.0	45568.051	0.0
219.1777	25.01	-4.21	68284.380	3.0	113895.200	2.0	219.4585	26.02	-3.82	140750.980	2.0	186303.440	3.0
219.1813	26.02	-2.61	140693.360	3.0	186303.440	3.0	219.4671	24.01	-3.71	25033.950	3.5	70584.640	2.5
219.1835	26.00	-1.02	704.003	2.0	46313.610	2.0	219.4705	25.02	-1.51	131420.030	6.5	176970.010	5.5
219.1937	28.02	-4.14	71067.000	3.0	116674.500	4.0	219.4752	26.00	-4.57	415.932	3.0	45964.944	2.0
219.1946	27.02	-4.81	125421.600	4.5	171028.900	5.5	219.4757	22.01	-7.57	0.000	1.5	45548.900	1.5
219.1988	26.01	-.98	38660.040	3.5	84266.480	2.5	219.4795	11.02	-.12	417415.500	1.5	462963.600	1.5
219.2029	28.01	-1.59	70706.770	1.5	116312.340	1.5	219.4802	23.01	-4.72	20242.320	4.0	65790.280	4.0
219.2037	28.01	-.23	57420.160	2.5	103025.580	2.5	219.4836	23.01	-3.12	30673.140	2.0	76220.490	2.0
219.2065	18.02	.19	226646.060	4.0	272250.900	3.0	219.4838	26.00	-4.88	7728.058	3.0	53275.270	2.0
219.2092	28.01	.72	53365.170	4.5	98969.440	5.5	219.4839	25.02	-1.08	94397.200	3.5	139944.400	3.5
219.2095	27.02	-2.22	82920.700	3.5	128524.900	2.5	219.4856	26.01	-2.88	20830.520	2.5	66377.370	3.5
219.2105	30.02	-2.54	237047.800	2.0	282651.800	1.0	219.4908	18.01	-2.37	151087.250	2.5	196633.020	2.5
219.2139	27.02	-2.49	86283.800	4.5	131887.100	4.5	219.4915	25.00	-3.83	17568.480	1.5	63114.110	1.5
219.2187	23.03	-4.76	217990.700	1.0	263593.000	2.0	219.4919	24.00	-.17	8095.210	3.0	53640.740	3.0
219.2226	18.01	-2.03	150474.900	1.5	196076.390	1.5	219.4922	10.02	-2.08	391414.020	2.0	436959.490	1.0
219.2253	26.02	-4.09	137209.730	4.0	182810.660	5.0	219.5075	23.01	-4.05	20343.000	2.0	55865.300	2.0
219.2258	26.00	-.91	7728.058	3.0	53328.870	4.0	219.5075	29.02	-3.47	80551.500	2.5	126093.600	3.5
219.2260	29.01	.69	22745.421	0.0	68360.448	0.0	219.5079	26.02	-2.75	89697.520	3.0	135239.740	4.0
219.2268	29.01	.22	22846.970	2.0	68447.570	3.0	219.5112	24.01	-1.79	25043.100	1.5	70584.640	2.5
219.2273	24.02	-1.93	112466.200	3.0	158066.700	3.0	219.5124	25.01	-2.83	39826.570	1.0	85367.850	2.0
219.2341	28.01	-.46	25036.380	2.5	70635.460	2.5	219.5172	27.00	-4.66	0.000	4.5	45540.280	5.5
219.2352	29.01	-2.27	71531.500	3.0	117130.360	2.0	219.5237	25.02	-1.83	130731.310	3.5	176270.250	2.5
219.2358	26.02	-3.15	136793.820	2.0	182392.550	2.0	219.5253	25.01	-2.11	36274.290	2.0	81812.900	2.0
219.2407	22.02	-2.21	38197.980	2.0	83795.700	1.0	219.5302	24.01	-2.22	25047.040	2.5	70584.640	2.5
219.2442	10.03	-.90	479079.000	1.5	524676.000	1.5	219.5335	27.02	-2.41	85517.300	5.5	131054.200	5.5
219.2461	25.02	-2.54	94697.850	3.5	140294.440	3.5	219.5354	18.01	-1.73	159706.460	.5	205242.970	.5
219.2514	26.02	-3.71	136797.050	3.0	182392.550	2.0	219.5385	20.02	-3.11	328090.990	2.0	373626.850	2.0
219.2518	27.01	-.47	17771.500	3.0	63366.900	2.0	219.5393	23.03	.01	220343.500	1.0	265819.200	1.0
219.2577	26.02	-4.85	69695.730	4.0	115289.910	5.0	219.5393	23.03	.25	220343.500	1.0	265819.200	1.0
219.2629	26.02	-3.05	144085.970	4.0	189679.070	3.0	219.5398	23.01	-3.00	20622.990	3.		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
219.5953	27.02	-2.63	128085.200	2.5	173609.300	1.5	219.9001	28.01	-2.28	70706.770	1.5	116167.760	1.5
219.6001	26.01	-1.42	27620.390	2.5	73143.480	3.5	219.9018	25.02	.22	94397.200	3.5	139857.840	4.5
219.6004	23.01	-4.65	18293.870	2.0	63816.900	3.0	219.9020	19.00	-1.28	201165.000	2.5	246625.600	1.5
219.6007	25.02	-1.72	94771.470	2.5	140294.440	3.5	219.9097	24.01	-3.13	19798.010	2.5	65257.030	3.5
219.6015	27.02	-3.62	125012.400	4.5	170535.200	4.5	219.9160	25.01	-2.62	36274.290	2.0	81732.000	1.0
219.6015	27.02	-3.62	125012.400	4.5	170535.200	4.5	219.9183	13.00	-2.65	0.000	.5	45457.233	.5
219.6030	73.01	1.68	4355.506	0.0	49892.225	0.0	219.9189	28.01	-1.19	55018.710	2.5	100475.820	3.5
219.6043	26.00	-1.10	888.132	1.0	46410.366	1.0	219.9235	24.01	-1.38	31531.620	1.5	76987.780	2.5
219.6044	26.00	-5.75	7376.762	4.0	52898.980	5.0	219.9236	26.02	-4.34	89783.590	4.0	135239.740	4.0
219.6075	24.01	-3.73	21822.860	2.5	67344.420	2.5	219.9287	18.03	-2.73	250219.450	.5	295674.540	.5
219.6151	17.01	-2.81	119942.100	1.0	165362.100	0.0	219.9293	22.01	-5.43	93.940	2.5	45548.900	1.5
219.6170	24.01	-3.87	21824.820	1.5	67344.420	2.5	219.9340	50.00	.22	1613.150	0.0	47081.336	0.0
219.6172	20.02	-1.39	282571.430	1.0	328090.990	2.0	219.9362	23.01	-3.22	19132.690	2.0	64586.230	2.0
219.6184	27.01	-1.30	19189.900	4.0	64709.200	5.0	219.9388	25.00	-4.14	17052.290	4.5	62505.290	3.5
219.6205	24.01	-6.71	20024.180	3.5	65543.060	3.5	219.9403	29.02	-3.61	148662.900	2.5	194115.600	3.5
219.6256	26.02	-2.47	140750.980	2.0	186268.790	2.0	219.9407	19.02	-1.99	243947.400	1.5	289400.000	2.5
219.6256	10.02	-1.35	352692.930	2.0	398210.740	3.0	219.9418	23.01	-1.86	26839.820	3.0	72292.200	4.0
219.6375	22.01	-8.08	393.220	4.5	45908.560	5.5	219.9441	26.02	-4.14	141002.990	4.0	186454.890	5.0
219.6383	23.02	-2.19	43942.490	1.5	89457.670	2.5	219.9442	23.01	-3.30	30306.400	3.0	75758.290	2.0
219.6391	18.01	-1.84	159706.460	.5	205221.470	1.5	219.9485	9.02	-4.90	413143.860	3.5	458594.860	2.5
219.6458	27.00	-5.52	816.000	3.5	46329.630	2.5	219.9488	10.02	-4.09	352745.910	3.0	398196.830	2.0
219.6483	28.01	-1.92	70748.700	.5	116261.810	.5	219.9583	29.00	-1.12	11211.395	0.0	56674.558	0.0
219.6498	25.00	-2.94	17568.480	1.5	63081.280	2.5	219.9585	25.02	-2.93	132937.060	.5	178386.000	.5
219.6539	20.02	-1.49	324660.470	3.0	370172.430	4.0	219.9587	25.01	-2.24	40759.500	0.0	86208.400	1.0
219.6568	24.01	-2.65	21822.860	2.5	67334.200	3.5	219.9601	25.01	-1.63	36364.300	1.0	81812.900	2.0
219.6569	24.01	-4.10	30298.770	5.5	75810.100	4.5	219.9607	26.01	-2.97	48039.230	2.5	93487.710	3.5
219.6599	24.02	-2.18	71676.200	4.0	117186.900	5.0	219.9611	24.02	-2.25	114354.900	4.0	159803.300	4.0
219.6622	28.01	-1.99	70635.460	2.5	116145.690	3.5	219.9617	22.01	-6.69	225.470	3.5	45673.750	4.5
219.6629	23.01	-3.56	20280.190	5.0	65790.280	4.0	219.9631	23.01	-3.19	30267.460	2.0	75715.450	1.0
219.6646	20.02	-3.17	348051.860	4.0	393561.590	4.0	219.9670	73.01	1.20	0.000	0.0	45461.365	0.0
219.6650	23.02	-2.08	42371.200	1.5	87880.850	2.5	219.9725	24.00	-4.41	8095.210	3.0	53541.250	2.0
219.6657	24.02	-4.36	112398.500	4.0	157908.000	4.0	219.9752	29.00	-0.04	13227.833	0.0	58687.503	0.0
219.6670	25.02	-3.94	94697.850	3.5	140207.090	2.5	219.9768	25.01	-4.41	44315.170	6.0	89760.330	5.0
219.6715	23.03	-2.31	218100.000	4.0	263608.300	3.0	219.9806	24.00	-6.50	7593.160	2.0	53037.520	2.0
219.6777	26.02	-2.42	90483.590	3.0	135990.620	4.0	219.9829	30.02	-1.87	237506.800	1.0	282950.700	2.0
219.6806	25.01	-1.99	36274.290	2.0	81780.700	3.0	219.9868	25.01	-1.65	47073.560	3.0	92516.650	4.0
219.6821	27.02	-2.72	126870.900	2.5	172377.000	3.5	219.9930	27.01	-5.04	1597.200	2.0	47039.000	3.0
219.6831	24.01	-1.76	32603.730	2.5	78109.640	1.5	219.9954	27.02	-3.89	126501.300	5.5	171942.600	4.5
219.6928	10.02	-2.22	352692.930	2.0	398196.830	2.0	220.0046	29.02	-4.88	80305.200	1.5	125744.600	1.5
219.6943	25.02	-2.49	90440.500	4.5	135944.080	4.5	220.0199	28.01	-3.45	71457.740	3.5	116893.980	2.5
219.6961	26.00	-3.39	6928.266	5.0	52431.470	6.0	220.0229	25.02	-2.46	94771.470	2.5	140207.090	2.5
219.7005	27.01	-4.47	950.300	3.0	46452.600	2.0	220.0280	26.01	-9.91	27620.390	2.5	73054.970	2.5
219.7054	24.01	-2.40	19528.380	.5	65029.670	.5	220.0292	23.01	-3.85	11908.270	2.0	57342.590	2.0
219.7061	23.02	-2.82	110181.470	2.5	125682.600	3.5	220.0293	24.02	-3.68	108459.200	2.0	133893.500	2.0
219.7070	20.02	-4.73	348051.860	4.0	393552.810	3.0	220.0317	29.01	-4.21	88926.090	0.0	134359.900	1.0
219.7081	18.01	-3.60	145668.800	1.5	191169.520	1.5	220.0350	26.00	-2.77	704.003	2.0	46137.140	3.0
219.7087	17.02	-1.60	209182.800	1.5	254683.400	2.5	220.0391	26.00	-1.65	978.076	0.0	46410.366	1.0
219.7094	20.02	-3.45	348051.860	4.0	393552.810	4.0	220.0424	27.01	-1.75	4950.000	2.0	50381.600	3.0
219.7098	10.02	-2.27	391414.020	2.0	436914.390	2.0	220.0472	10.02	-1.10	391414.020	2.0	436844.630	3.0
219.7116	20.02	-1.83	348051.860	4.0	393551.860	5.0	220.0488	29.01	-0.07	73101.870	1.0	118532.150	2.0
219.7127	10.02	-3.48	352692.930	2.0	398192.700	1.0	220.0502	19.02	-1.87	192082.000	2.5	237512.000	2.5
219.7227	24.01	-4.15	30219.040	4.5	75716.740	3.5	220.0506	17.02	-4.16	209182.800	1.5	254612.700	1.5
219.7234	26.00	-2.83	415.932	3.0	45913.480	3.0	220.0511	25.01	-3.89	43696.190	3.0	89126.000	3.0
219.7248	24.00	-6.08	8307.570	4.0	53804.840	3.0	220.0538	25.02	-2.03	90440.500	4.5	135869.760	3.5
219.7261	26.01	-2.27	26932.740	.5	72429.740	.5	220.0556	25.01	-3.16	44521.520	4.0	89950.400	3.0
219.7343	26.02	-3.76	134265.420	2.0	179760.720	3.0	220.0580	26.00	-4.15	0.000	4.0	45428.385	4.0
219.7350	28.00	-7.79	1713.080	1.0	47208.228	1.0	220.0599	27.02	-1.98	128423.100	1.5	173851.100	.5
219.7382	9.03	-4.51	452081.100	2.0	497575.600	2.0	220.0599	27.02	-1.98	128423.100	1.5	173851.100	.5
219.7402	26.02	-2.61	134265.420	2.0	179759.490	2.0	220.0599	27.02	-2.95	128423.100	1.5	173851.100	.5
219.7421	26.02	-4.39	97041.380	3.0	142535.070	2.0	220.0659	21.01	-4.88	30815.650	1.0	76242.400	0.0
219.7507	7.01	-1.60	168892.210	1.0	214384.130	2.0	220.0680	28.00	-1.33	1713.080	1.0	47139.392	2.0
219.7524	24.00	-4.45	20517.400	2.0	66008.950	3.0	220.0721	26.00	-2.03	888.132	1.0	46313.610	2.0
219.7559	23.01	-4.09	30267.460	2.0	75758.290	2.0	220.0727	20.00	-1.41	0.000	0.0	45425.358	1.0
219.7570	23.01	-4.83	19112.930	4.0	64603.530	3.0	220.0758	9.01	-1.20	211866.130	3.0	257290.840	2.0
219.7579	28.01	-3.53	51045.460	4.5	96535.870	3.5	220.0836	24.02	-1.62	71676.200	4.0	117099.300	4.0
219.7676	25.02	-4.59	91948.300	3.5	137436.700	4.5	220.0897	56.01	-1.54	20261.562	0.0	65897.582	0.0
219.7781	18.01	-3.05	144709.910	.5	190196.160	.5	220.0957	24.02	-1.18	63038.600	1.0	108459.200	2.0
219.7787	20.01	-1.38	25191.510	.5	70677.620	.5	220.0957	24.02	-1.45	66222.700	5.0	111643.300	4.0
219.7828	24.00	-4.35	20523.690	4.0	66008.950	3.0	220.0984	23.01	-1.90	19166.190	1.0	64586.230	2.0
219.7841	27.02	-3.04	127317.700	3.5	172802.700	2.5	220.1032	28.01	.16	70748.700	.5	116167.760	1.5
219.7845	27.02	-4.33	126892.100	3.5	172377.000	3.5	220.1036	29.01	-2.94	72724.000	2.0	118142.970	3.0
219.7847	29.01	-1.89	70841.300	3.0	116326.160	3.0	220.1059	24.00	-7.65	7593.160	2.0	53011.650	1.0
219.7855	28.01	-2.78	70706.770	1.5	116191.740	2.5	220.1106	26.02	-4.84	134265.420	2.0	179682.940	1.0
219.7868	10.02	-2.29	391429.940	3.0	436914.390	2.0	220.1117	26.00	-1.91	415.932	3.0	45833.240	4.0
219.7884	24.02	.23	65890.900	3.0	111375.000	3.0	220.1134	18.01	-1.25	163506.450	3.5	208923.410	2.5
219.7892	26.02	-3.49	141399.040	2.0	186882.980	3.0	220.1158	26.02	-4.44	141466.530	3.0	186882.980	3.0
219.7907	14.01	-1.24	79338.760	1.5	124822.400	2.5	220.1219	26.02	-4.68	69695.730	4.0	115110.920	4.0
219.7914	25.02	-4.01	131701.690	1.5	177185.180	.5	220.1235	27.00	-2.19	4690.180	2.5	50105.0	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
220.2153	26.01	-2.57	27620.390	2.5	73016.330	3.5
220.2208	18.01	-4.99	143371.350	1.5	188766.150	2.5
220.2220	78.00	-1.17	725.918	0.0	46134.642	0.0
220.2232	10.02	-1.70	391450.310	4.0	436844.630	3.0
220.2281	27.02	-2.56	126549.300	3.5	171942.600	4.5
220.2282	24.01	-1.81	25033.950	3.5	70427.220	3.5
220.2343	26.00	-5.34	7376.762	4.0	52768.780	4.0
220.2408	20.02	-1.52	282571.430	1.0	327962.110	1.0
220.2413	9.01	-3.12	211900.260	1.0	257290.840	2.0
220.2442	25.02	-3.25	132297.550	2.5	177687.540	3.5
220.2450	26.02	-1.31	76956.790	3.0	122346.610	3.0
220.2490	76.00	-0.08	0.000	0.0	45403.157	0.0
220.2496	23.02	-1.90	56256.750	1.5	101645.610	.5
220.2499	25.00	-1.66	17282.000	3.5	62670.810	4.5
220.2502	23.02	.10	61777.150	1.5	107165.900	1.5
220.2549	26.02	-3.00	134360.400	4.0	179748.170	5.0
220.2552	23.01	-5.85	18269.490	1.0	63657.200	2.0
220.2674	25.01	-3.07	36274.290	2.0	81659.500	3.0
220.2681	12.01	-2.71	71490.190	2.5	116875.250	2.5
220.2681	12.01	-1.41	71490.190	2.5	116875.250	3.5
220.2723	12.01	-1.56	71491.060	1.5	116875.250	2.5
220.2786	11.02	-1.39	366165.300	2.5	411548.200	2.5
220.2795	25.01	-4.43	43696.190	3.0	89078.900	2.0
220.2806	17.01	-4.74	128662.500	2.0	174045.000	3.0
220.2912	25.01	-2.83	44138.960	1.0	89519.250	2.0
220.2918	24.01	-1.16	25047.040	2.5	70427.220	3.5
220.2922	9.01	-1.47	211887.190	2.0	257267.300	1.0
220.2943	23.01	-1.65	20617.050	2.0	65996.700	3.0
220.2980	27.02	-2.60	126998.100	4.5	172377.000	3.5
220.2985	27.01	-2.55	0.000	4.0	45378.800	4.0
220.3070	28.01	-3.06	75917.630	3.5	121294.670	4.5
220.3087	26.02	-1.62	138054.590	5.0	183431.280	5.0
220.3106	25.02	-2.21	91906.100	2.5	137282.400	2.5
220.3123	26.02	-3.21	141002.990	4.0	186378.940	4.0
220.3130	30.02	-3.04	257566.100	1.0	302941.900	2.0
220.3232	23.01	-3.08	20622.990	3.0	65996.700	3.0
220.3266	24.02	.22	63420.300	3.0	108793.300	3.0
220.3320	28.02	-4.17	138487.400	3.0	183859.300	3.0
220.3373	28.01	-1.37	55018.710	2.5	100389.520	2.5
220.3388	27.01	-4.44	950.300	3.0	46320.800	4.0
220.3467	28.01	.05	56371.410	3.5	101740.270	3.5
220.3524	25.01	-1.99	36364.300	1.0	81732.000	1.0
220.3530	28.01	-1.82	70778.120	3.5	116145.690	3.5
220.3530	82.01	-1.39	13953.751	0.0	59335.479	0.0
220.3555	9.01	-1.95	211900.260	1.0	257267.300	1.0
220.3586	28.01	-4.49	71457.740	3.5	116824.150	2.5
220.3606	24.02	.16	71166.100	2.0	116532.100	3.0
220.3606	10.03	-0.01	479651.000	2.5	525017.000	2.5
220.3631	7.01	-1.64	168892.210	1.0	214257.690	1.0
220.3715	26.02	-3.45	136464.900	1.0	181828.660	2.0
220.3722	26.01	-4.06	22637.190	4.5	68000.820	4.5
220.3736	23.01	-3.39	18293.870	2.0	63657.200	2.0
220.3738	24.02	-4.95	71736.000	5.0	117099.300	4.0
220.3744	23.01	-4.53	20522.140	1.0	65885.300	2.0
220.3873	24.01	-1.44	25033.950	3.5	70394.460	4.5
220.3905	24.01	-2.75	20024.180	3.5	65384.040	4.5
220.3955	24.01	-4.11	19798.010	2.5	65156.840	2.5
220.3956	23.03	-2.10	218463.600	5.0	263822.000	4.0
220.3964	24.00	-9.49	0.000	3.0	45358.630	4.0
220.3966	27.02	-4.61	126381.800	1.5	171740.400	1.5
220.3966	27.02	-4.61	126381.800	1.5	171740.400	1.5
220.4058	26.01	-4.05	16369.390	3.5	61726.090	3.5
220.4071	25.02	-1.92	94850.660	1.5	140207.090	2.5
220.4104	26.01	-3.22	48039.230	2.5	93395.600	2.5
220.4104	26.01	-2.79	20340.360	5.5	65696.110	4.5
220.4188	26.02	-1.83	138103.120	4.0	183457.150	4.0
220.4203	27.00	-3.92	7442.410	3.5	52796.130	2.5
220.4210	26.02	-2.91	138103.120	4.0	183456.690	3.0
220.4258	9.01	-1.82	211900.260	1.0	257252.840	0.0
220.4314	20.02	-1.10	282571.430	1.0	327922.870	2.0
220.4446	25.01	-3.30	36364.300	1.0	81713.020	0.0
220.4480	74.01	1.58	6049.314	0.0	51411.486	0.0
220.4491	27.02	-4.63	126381.800	1.5	171729.600	2.5
220.4499	23.02	-4.94	44110.040	2.5	89457.670	2.5
220.4513	29.01	-2.54	72724.000	2.0	118071.340	1.0
220.4520	24.02	-4.45	66027.800	4.0	111375.000	3.0
220.4537	26.02	-3.57	144332.210	4.0	189679.070	3.0
220.4618	13.00	-2.35	112.061	1.5	45457.233	.5
220.4627	11.05	.02	951389.000	2.0	996734.000	3.0
220.4667	13.00	-1.76	0.000	.5	45344.164	1.5
220.4697	18.01	-4.08	145668.800	1.5	191012.350	1.5
220.4744	24.02	-2.10	109721.400	3.0	155064.000	4.0
220.4798	28.01	-1.69	68281.620	.5	113623.100	.5
220.4803	27.00	-1.08	4142.660	3.5	49484.050	3.5
220.4812	23.02	-4.44	101785.810	1.5	147127.000	2.5
220.4841	25.02	-1.73	90440.500	4.5	135781.090	5.5
220.4844	25.00	-4.49	17052.290	4.5	62392.820	4.5
220.5017	26.01	-1.37	27314.930	3.5	72651.910	3.5
220.5059	25.00	-4.85	17451.520	2.5	62787.630	1.5
220.5079	26.01	-2.98	27314.930	3.5	72650.630	4.5
220.5094	27.01	-1.07	18031.500	2.0	63366.900	2.0
220.5118	30.02	-2.92	237642.700	3.0	282977.600	4.0
220.5157	25.02	-2.46	91948.300	3.5	137282.400	2.5
220.5202	24.00	-1.54	8307.570	4.0	53640.740	3.0
220.5263	23.02	-4.19	99440.100	2.5	144772.020	3.5
220.5265	26.02	-3.26	89907.850	4.0	135239.740	4.0
220.5265	26.02	-4.45	89907.850	5.0	135239.740	4.0
220.5283	24.01	-3.13	32603.730	2.5	77935.240	2.5
220.5330	24.01	-1.48	36101.820	3.5	81432.360	3.5
220.5401	25.02	-2.18	94850.660	1.5	140179.740	2.5
220.5446	26.02	-2.72	138103.120	4.0	183431.280	5.0
220.5459	30.02	-2.88	237642.700	3.0	282970.600	3.0
220.5468	26.02	-4.40	134549.000	3.0	179876.710	4.0
220.5527	27.01	-1.58	18338.500	1.0	63665.000	1.0
220.5542	27.02	-3.94	127050.800	4.5	172377.000	3.5
220.5548	28.01	.87	53496.490	5.5	98222.550	6.5
220.5581	28.00	-1.90	3409.925	2.0	48735.308	2.0
220.5684	28.01	-3.06	75917.630	3.5	121240.900	3.5
220.5699	23.01	-4.28	20980.920	2.0	66303.880	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
220.5730	26.02	-3.85	141469.450	1.0	186791.780	2.0
220.5732	18.01	-1.69	155708.020	.5	201030.300	.5
220.5756	29.02	-3.42	80422.800	.5	125744.600	1.5
220.5782	28.01	-2.77	70635.460	2.5	115956.710	2.5
220.5856	7.01	-2.04	168892.210	1.0	214211.960	0.0
220.5861	27.00	-2.53	1809.330	1.5	47128.960	2.5
220.5862	28.01	.28	55299.650	4.5	100619.260	4.5
220.5877	27.01	-2.01	4028.900	4.0	49348.200	4.0
220.5921	24.02	-3.01	71868.500	6.0	117186.900	5.0
220.6032	18.02	-1.69	226355.960	2.0	271672.080	1.0
220.6087	7.01	-3.57	164610.760	1.0	209925.760	2.0
220.6096	27.02	-4.83	128536.300	.5	173851.100	.5
220.6096	27.02	-4.83	128536.300	.5	173851.100	.5
220.6096	27.02	-3.17	128536.300	.5	173851.100	.5
220.6153	26.01	-4.62	39013.280	1.5	84326.910	1.5
220.6172	26.02	-3.35	89783.590	4.0	135096.840	3.0
220.6185	26.02	-4.57	141399.040	2.0	186712.020	1.0
220.6204	27.01	.01	18031.500	2.0	63344.100	3.0
220.6224	26.01	-3.92	15844.710	4.5	61156.900	3.5
220.6233	10.03	-4.41	479079.000	1.5	524391.000	.5
220.6287	20.02	-1.57	328090.990	2.0	373401.870	3.0
220.6322	28.01	-3.92	75917.630	3.5	121227.800	2.5
220.6339	25.00	-1.84	17451.520	2.5	62761.330	2.5
220.6418	27.02	-4.82	125227.000	3.5	170535.200	4.5
220.6418	27.02	-4.82	125227.000	3.5	170535.200	4.5
220.6428	30.02	-3.40	237642.700	3.0	282950.700	2.0
220.6428	28.02	-4.35	84604.800	1.0	129912.800	2.0
220.6454	23.02	-1.85	44110.040	2.5	89417.500	3.5
220.6589	26.01	-2.66	27314.930	3.5	72619.610	2.5
220.6590	26.01	-1.95	21308.080	1.5	66612.740	1.5
220.6617	25.01	-1.83	36427.890	0.0	81732.000	1.0
220.6656	23.01	-4.22	18353.890	3.0	63657.200	2.0
220.6695	27.01	-4.61	10708.100	3.0	56010.600	2.0
220.6709	23.01	-4.54	8841.970	3.0	54144.200	4.0
220.6712	28.01	.11	10115.660	2.5	55417.830	3.5
220.6765	26.02	-3.53	134360.400	4.0	179661.480	3.0
220.6785	9.02	-4.66	344436.960	.5	389737.630	.5
220.6795	26.02	-3.74	141002.990	4.0	186303.440	3.0
220.6924	27.02	-4.26	86283.800	4.5	131581.600	3.5
220.6936	26.02	-4.14	136532.450	2.0	181830.020	3.0
220.6964	28.01	-4.12	76402.030	2.5	121699.020	1.5
220.6974	18.01	-3.03	163506.450	3.5	208803.240	4.5
220.6978	28.01	-3.36	54262.630	3.5	99559.330	2.5
220.7002	26.02	-3.36	136532.450	2.0	181828.660	2.0
220.7069	26.00	-2.44	0.000	4.0	45294.830	5.0
220.7095	26.02	-3.28	144501.740	2.0	189796.030	1.0
220.7107	23.01	-3.37	20522.140	1.0	65816.200	1.0
220.7142	28.01	-1.05	55299.650	4.5	100592.980	3.5
220.7188	24.02	-3.33	108793.300	3.0	154085.700	3.0
220.7192	18.01	-4.70	163299.470	2.5	208591.780	1.5
220.7226	20.02	-3.01	328588.760	3.0	373880.370	3.0
220.7256	9.03	-2.30	538195.000	0.0	583486.000	1.0
220.7262	28.01	-4.44	56075.260	2.5	101366.140	2.5
220.7266	24.02	-4.09	71676.200	4.0	116967.000	4.0
220.7330	26.00	-3.21	7985.780	2.0	53275.270	2.0
220.7335	26.01	-3.74	48039.230	2.5	93328.600	1.5
220.7366	26.01	-4.68	21711.890	3.5	67000.630	2.5
220.7451	24.02	-4.83	63172.200	2.0	108459.200	2.0
220.7452	23.01	-3.60	8640.210	2.0	53927.190	3.0
220.7496	24.00	-9.52	0.000	3.0	45286.080	4.0
220.7568	27.02	-1.23	85517.300	5.5	130801.900	4.5
220.7633	23.02	-4.62	61777.150	1.5	107060.410	.5
220.7641	24.01	-3.22	25033.950	3.5	70317.060	2.5
220.7657	26.02	-3.01	144501.740	2.0	189784.520	2.0
220.7658	26.02	-1.81	137527.920	4.0	182810.660	5.0
220.7700	26.02	-2.66	90423.680	2.0	135705.570	3.0
220.7704	27.00	-2.14	1809.330	1.5	47091.140	.5
220.7736	28.00	-1.23	0.000	4.0	45281.152	3.0
220.7766	22.01	-7.79	393.220	4.5	45673.750	4.5
220.7775	26.01	-3.76	26932.740	.5	72213.100	.5
220.7840	23.01	-3.47	18269.490	1.0	63548.500	1.0
220.7847	26.02	-2.17	93412.930	2.0	138691.810	1.0
220.7850	25.01	-.98	44521.520	4.0	89800.360	4.0
220.7855	26.02	-4.81	89697.520	3.0	134976.220	3.0
220.7861	27.00	-.98	1406.840	2.5	46685.430	1.5
220.7914	27.01	-.24	18338.500	1.0	63616.000	2.0
220.7953	24.02	-3.83	71868.500	6.0	117145.200	5.0
220.7978	14.00	-1.68	0.000	0.0	45276.188	1.0
220.7982	28.01	-1.14	68131.210	3.5	113407.310	2.5
220.8008	25.01	-4.35	43850.420	2.0	89126.000	3.0
220.8031	23.03	-3.34	217836.300	3.0	263111.400	4.0
220.8080	26.02	-3.70	69836.830	3.0	115110.920	4.0
220.8088	24.01	-1.58	25043.100	1.5	70317.040	2.5
220.8092	18.01	-2.45	145668.800	1.5	190942.650	.5
220.8104	20.02	-1.67	328606.780	2.0	373880.370	3.0
220.8148	28.01	-3.47	75917.630	3.5	121190.340	4.5
220.8149	18.01	-3.57	155351.030	1.5	200623.700	.5
220.8206	26.02	-2.44	97041.380	3.0	142312.900	3.0
220.8251	24.02	-4.44	108459.200	2.0	153729.800	1.0
220.8254	26.02	-4.48	83646.980	1.0	128917.510	2.0
220.8262	26.02	-3.44	134360.400	4.0	179630.770	4.0
220.8280	24.01	-1.96	25047.040	2.5	70317.040	2.5
220.8316	26.02	-2.50	138187.930	1.0	183457.150	4.0
220.8340	26.02	-1.81	138187.930	3.0	183456.690	3.0
220.8365	23.01	-3.43	20617.050	2.0	65885.300	2.0
220.8414	26.01	-.52	38458.990	4.5	83726.240	3.5
220.8450	51.00	.35	9759.560	0.0	55504.187	0.0
220.8480	27.02	-3.63	127317.700	3.5	172583.600	3.5
220.8480	27.02	-3.63	127317.700	3.5	172583.600	3.5
220.8480	27.02	-3.72	127317.700	3.5	172583.600	3.5
220.8519	27.00	-2.74	1406.840	2.5	46671.940	2.5
220.8537	24.01	-4.43	32844.920	1.5	78109.640	1.5
220.8610	20.01	-1.07	25414.400	1.5	70677.620	.5
220.8612	30.02	-3.76	257678.700	2.0	302941.900	2.0
220.8612	30.02	-2.61	257678.700	2.0	302941.900	3.0
220.8655	23.01	-4.68	20622.990	3.0	65885.300	2.0
220.8671	28.00	-3.14	3409.925	2.0	48671.900	3.0
220.8706	26.01	-4.22	20522.140	1.0	65783.400	0.0
220.8722	23.00	-3.05	704.003	2.0	45964.944	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
220.8724	24.02	-4.44	70291.800	2.0	115552.700	3.0	221.1557	26.02	-4.43	137209.730	4.0	182412.650	4.0
220.8725	24.00	-2.40	7750.780	0.0	53011.650	1.0	221.1575	25.02	-3.89	133949.540	4.5	179152.090	3.5
220.8739	25.01	-2.91	49820.160	2.0	95080.760	1.0	221.1591	23.02	-3.64	99941.200	3.5	145143.430	4.5
220.8777	25.01	-4.05	37811.570	1.0	83070.970	2.0	221.1630	28.01	-4.47	55417.830	3.5	100619.260	4.5
220.8808	25.00	-4.65	0.000	2.5	45259.170	1.5	221.1659	24.00	-2.48	7810.820	1.0	53011.650	1.0
220.8874	26.02	-4.25	86847.110	2.0	132104.940	2.0	221.1716	25.00	-2.59	17568.480	1.5	62768.160	1.5
220.8938	23.02	-4.21	56529.300	1.5	101785.810	1.5	221.1740	26.02	-3.65	137209.730	4.0	182408.910	3.0
220.8950	9.02	-4.03	444238.270	4.5	489494.530	3.5	221.1742	23.01	-6.57	20617.050	2.0	65816.200	1.0
220.8984	24.01	-3.56	45730.740	2.5	90986.310	3.5	221.1746	14.00	-1.84	77.115	1.0	45276.188	1.0
220.9030	23.01	-4.07	18293.870	2.0	63548.500	1.0	221.1753	26.01	-4.33	18360.650	1.5	63559.560	1.5
220.9034	24.01	-2.76	32855.090	2.5	78109.640	1.5	221.1797	25.02	-1.19	90746.060	5.5	135944.080	4.5
220.9036	27.02	-1.84	86283.800	4.5	131538.300	4.5	221.1808	27.01	-4.30	0.000	4.0	45197.800	5.0
220.9036	27.02	-2.23	86327.100	3.5	131581.600	3.5	221.1821	10.02	0.32	391414.020	2.0	436611.560	3.0
220.9041	28.01	-1.69	68154.310	1.5	113408.710	1.5	221.1857	30.02	-2.11	237642.700	3.0	282839.500	3.0
220.9100	26.01	-4.36	39013.280	1.5	84266.480	2.5	221.1858	24.01	-1.23	20512.750	5.5	65709.530	5.5
220.9109	28.01	-4.22	68154.310	1.5	113407.310	2.5	221.1900	26.02	-2.58	136612.780	4.0	181808.700	5.0
220.9174	25.02	-3.29	90440.500	4.5	135692.170	3.5	221.1952	25.02	0.28	94707.200	4.5	139902.060	5.5
220.9208	23.02	-4.77	43942.490	1.5	89193.470	1.5	221.2022	24.01	-7.26	20024.180	3.5	65217.610	4.5
220.9259	28.01	0.00	70706.770	1.5	115956.710	2.5	221.2027	25.01	-4.70	33147.390	5.0	78340.720	6.0
220.9362	26.01	-4.79	20830.520	2.5	66078.340	2.5	221.2038	29.02	-4.19	80551.500	2.5	125744.600	1.5
220.9363	11.02	-3.30	415173.200	1.5	460421.000	2.5	221.2050	25.00	-0.97	17568.480	1.5	62761.330	2.5
220.9372	24.01	-1.65	21822.860	2.5	67070.480	1.5	221.2061	26.02	-3.13	89783.590	4.0	134976.220	3.0
220.9414	26.02	-3.80	83358.880	2.0	128605.650	1.0	221.2076	18.01	-2.46	159393.310	1.5	204585.640	2.5
220.9440	24.01	-1.82	21824.250	1.5	67070.480	1.5	221.2083	25.01	-2.71	38720.200	6.0	83912.380	5.0
220.9468	24.01	-2.31	21824.820	1.5	67070.480	1.5	221.2108	28.01	0.56	70635.460	2.5	115827.120	3.5
220.9505	25.01	-1.93	41204.340	5.0	86449.240	4.0	221.2150	28.00	-1.56	1332.153	3.0	46522.965	2.0
220.9508	13.02	-1.35	143633.380	1.5	188878.220	1.5	221.2166	26.01	-3.16	22810.330	3.5	68000.820	4.5
220.9540	26.02	-3.18	77102.430	2.0	122346.610	3.0	221.2205	24.01	-1.76	20519.850	4.5	65709.530	5.5
220.9541	26.00	-4.06	7985.783	2.0	53229.940	1.0	221.2206	26.01	-1.79	33501.320	3.5	78690.980	2.5
220.9553	9.02	-4.23	414897.720	3.5	460141.630	2.5	221.2218	24.01	-2.33	21822.860	2.5	67012.280	2.5
220.9619	26.02	-4.41	141469.450	1.0	186712.020	1.0	221.2234	27.01	-7.57	1597.200	2.0	46786.300	1.0
220.9650	50.00	0.56	3387.616	0.0	48643.652	0.0	221.2259	26.01	-3.56	21812.040	1.5	67000.630	2.5
220.9729	26.02	-2.93	89697.520	3.0	134937.840	2.0	221.2277	26.00	-3.31	7728.058	3.0	52916.278	2.0
220.9755	26.02	-4.99	92523.910	5.0	137763.700	5.0	221.2314	24.01	-3.54	21824.820	1.5	67012.280	2.5
220.9758	26.01	-4.54	20340.360	5.5	65580.090	5.5	221.2345	27.00	-2.00	816.000	3.5	46002.830	2.5
220.9785	29.01	-4.07	70841.300	3.0	116080.460	3.0	221.2376	27.02	-1.43	128423.100	1.5	173609.300	1.5
220.9802	25.01	-4.40	44521.520	4.0	89760.330	5.0	221.2376	27.02	-1.43	128423.100	1.5	173609.300	1.5
220.9881	25.02	-1.26	94707.200	4.5	139944.400	3.5	221.2376	27.02	-2.68	128423.100	1.5	173609.300	1.5
220.9920	26.01	-3.36	26932.740	1.5	72169.150	1.5	221.2434	25.03	-1.49	152700.500	4.0	197885.500	3.0
220.9925	26.00	-3.98	7376.762	4.0	52613.072	5.0	221.2439	25.02	-0.07	71395.270	1.5	116580.170	1.5
220.9990	26.02	-3.60	137209.730	4.0	182444.700	3.0	221.2545	28.01	-2.31	56075.260	2.5	101258.010	1.5
220.9997	28.01	-4.11	70635.460	2.5	115870.280	2.5	221.2600	10.02	-1.14	391429.940	3.0	436611.560	3.0
221.0030	23.01	-1.01	30613.970	4.0	75848.130	3.0	221.2643	25.02	-0.83	86520.940	2.5	131701.690	1.5
221.0030	73.01	1.13	0.000	0.0	45248.255	0.0	221.2665	27.02	-4.52	126549.300	3.5	171729.600	2.5
221.0041	25.01	-2.40	30684.810	1.0	75918.730	2.0	221.2668	28.01	0.20	54262.630	3.5	99442.860	4.5
221.0060	13.00	-1.50	112.061	1.5	45345.598	2.5	221.2695	25.02	-3.20	132299.550	2.5	177477.230	2.5
221.0094	24.01	-3.85	20024.180	3.5	65257.030	3.5	221.2727	29.01	-4.40	73353.120	2.0	118532.150	2.0
221.0096	26.02	-1.46	86847.110	2.0	132079.910	3.0	221.2748	28.01	-1.93	70778.120	3.5	115956.710	2.5
221.0130	13.00	-2.45	112.061	1.5	45344.164	1.5	221.2810	26.02	-3.59	144501.740	2.0	189679.070	3.0
221.0155	25.02	-4.95	91906.100	2.5	137137.690	1.5	221.2816	27.02	-2.61	128017.700	3.5	173194.900	2.5
221.0184	24.02	-3.23	71736.000	5.0	116967.000	4.0	221.2816	27.02	-2.61	128017.700	3.5	173194.900	2.5
221.0233	28.01	-1.71	29070.930	1.5	74300.930	1.5	221.2816	27.02	-2.74	128017.700	3.5	173194.900	2.5
221.0268	29.01	-4.24	26264.400	2.0	71493.680	2.0	221.2867	28.01	-0.56	55299.650	4.5	100475.820	3.5
221.0310	23.01	-2.38	8640.210	2.0	53868.630	2.0	221.2917	28.01	-0.01	55417.830	3.5	100592.980	3.5
221.0318	18.01	-1.86	151087.250	2.5	196315.510	2.5	221.2925	23.01	-4.18	30673.140	2.0	75848.130	3.0
221.0340	15.01	-4.08	469.000	2.0	45696.800	2.0	221.2965	23.01	-5.21	19112.930	4.0	64287.100	5.0
221.0379	28.01	-4.18	9330.040	3.5	54557.050	4.5	221.3026	25.02	-2.58	94771.470	2.5	139944.000	3.5
221.0394	24.00	-2.06	7810.820	1.0	53037.520	2.0	221.3066	28.01	-0.57	56075.260	2.5	101247.370	2.5
221.0453	24.02	-4.41	71166.100	2.0	116391.600	2.0	221.3115	24.02	-4.11	112466.200	3.0	157637.300	3.0
221.0492	9.03	-1.95	538261.300	1.0	583486.000	1.0	221.3155	28.01	-4.41	58493.210	2.5	103663.500	1.5
221.0561	25.00	-2.99	17282.000	3.5	62505.290	3.5	221.3163	26.02	-4.87	137209.730	4.0	182379.860	5.0
221.0572	25.01	-2.08	37847.900	2.0	83070.970	2.0	221.3186	27.01	-2.54	19189.900	4.0	64359.560	3.0
221.0598	10.01	-3.33	279218.660	2.5	324441.190	2.5	221.3195	28.01	-0.32	23796.180	1.5	68965.650	1.5
221.0604	10.01	-2.03	279218.660	2.5	324441.070	3.5	221.3297	24.01	-3.53	20512.750	5.5	55680.150	4.5
221.0625	26.02	-2.54	90483.590	3.0	135705.570	3.0	221.3302	23.01	-3.92	20622.990	3.0	65790.280	4.0
221.0671	29.01	-4.00	88605.160	1.0	133826.200	2.0	221.3325	26.02	-2.47	138264.470	6.0	183431.280	5.0
221.0689	26.00	-3.37	0.000	4.0	45220.662	3.0	221.3424	16.01	-3.64	119294.700	2.5	164459.500	2.5
221.0731	25.01	-1.69	37851.150	3.0	83070.970	2.0	221.3428	13.02	-2.05	143713.500	1.5	188878.220	1.5
221.0763	25.00	-1.53	17568.480	1.5	62787.630	1.5	221.3459	13.02	-1.10	143713.500	1.5	188877.570	2.5
221.0784	25.02	-0.93	89898.080	1.5	135116.800	1.5	221.3463	27.02	-1.46	83773.400	1.5	128937.400	1.5
221.0820	72.01	1.05	36699.172	0.0	81931.258	0.0	221.3487	28.01	0.15	70706.770	1.5	115870.280	2.5
221.0830	18.01	-3.00	151087.250	2.5	196305.040	3.5	221.3570	24.01	-2.53	20518.330	3.5	65680.150	4.5
221.0841	26.01	-4.45	39109.340	1.5	84326.910	1.5	221.3598	10.02	-4.34	391450.310	4.0	436611.560	3.0
221.0851	16.01	-3.62	119242.130	1.5	164459.500	2.5	221.3645	24.01	-2.58	20519.850	4.5	65680.150	4.5
221.0857	26.02	-3.91	136612.780	4.0	181830.020	3.0	221.3652	26.01	-0.26	21251.550	6.5	66411.700	6.5
221.0892	14.00	-1.33	77.115	1.0	45293.629	2.0	221.3660	25.02	-2.37	94697.850	3.5	139857.840	4.5
221.0912	27.00	-5.18	816.000	3.5	46032.100	4.5	221.3674	24.01	-0.25	36272.660	4.5	81432.360	3.5
221.0918	26.01	-3.93	20340.360	5.5	65556.340	4.5	221.3719	26.0					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
221.4769	56.01	-2.73	4873.850	0.0	50025.286	0.0	221.8111	28.01	.38	56075.260	2.5	101144.620	3.5
221.4802	27.01	-1.34	4560.800	3.0	49697.500	4.0	221.8160	26.02	-2.66	89907.800	4.0	134976.220	3.0
221.4810	25.01	-2.64	46903.260	2.0	92039.800	2.0	221.8185	28.01	-3.05	52205.950	3.5	97273.830	2.5
221.4956	26.02	-3.26	134549.380	1.0	179682.940	1.0	221.8203	28.01	-1.41	17770.830	2.5	116838.330	1.5
221.5000	24.01	-5.24	20024.180	3.5	65156.840	2.5	221.8225	26.02	-1.89	137763.700	5.0	182830.760	6.0
221.5077	24.01	-.29	36101.820	3.5	81232.910	2.5	221.8246	25.01	-3.04	37851.150	3.0	82917.780	2.0
221.5081	25.00	-1.54	17637.150	.5	62768.160	.5	221.8267	26.01	-.45	38660.040	3.5	83726.430	3.5
221.5088	29.01	.41	73353.120	2.0	118484.000	3.0	221.8357	24.01	-1.13	35356.060	1.5	80420.430	2.5
221.5231	26.00	-5.23	11976.239	4.0	57104.207	5.0	221.8367	18.01	-3.19	145668.800	1.5	190732.970	.5
221.5233	25.02	.14	71564.210	1.5	116692.140	2.5	221.8380	24.02	-4.40	112371.200	2.0	157435.100	2.0
221.5235	26.02	-4.27	134549.380	3.0	179676.890	2.0	221.8385	22.00	-6.38	0.000	2.0	45063.800	2.0
221.5253	26.02	-4.47	134549.380	1.0	179676.890	2.0	221.8417	23.02	-.17	43942.490	1.5	89005.640	.5
221.5257	25.01	-2.37	37811.570	1.0	82939.000	1.0	221.8430	7.01	-1.91	164610.760	1.0	209673.650	2.0
221.5274	28.01	-.74	68281.620	.5	113408.710	1.5	221.8473	7.01	-3.98	166765.660	1.0	211827.670	2.0
221.5313	24.01	-2.51	19798.010	2.5	64924.300	3.5	221.8492	29.01	-.06	73101.870	1.0	118163.500	2.0
221.5345	26.01	-5.07	20805.830	4.5	65931.460	3.5	221.8569	28.01	-1.26	55018.710	2.5	100078.780	1.5
221.5372	28.02	-2.87	71067.000	3.0	116192.100	4.0	221.8646	9.03	-1.33	452517.100	3.0	497575.600	2.0
221.5403	26.02	-4.83	139827.170	4.0	184951.620	3.0	221.8671	28.01	-2.34	55417.830	3.5	100475.820	3.5
221.5440	9.03	-2.43	538261.300	1.0	583385.000	2.0	221.8694	8.01	-2.14	214229.480	1.5	259287.000	1.5
221.5534	30.02	-3.32	237506.800	1.0	282628.600	2.0	221.8734	8.01	-1.28	214229.480	1.5	259286.200	2.5
221.5539	18.01	-2.14	159393.310	1.5	204515.000	.5	221.8802	18.01	-1.50	155351.030	1.5	200406.360	.5
221.5563	30.02	-2.46	237047.800	2.0	282169.000	2.0	221.8815	27.00	-1.65	4142.660	3.5	49197.740	4.5
221.5595	26.00	-3.93	8154.713	1.0	53275.270	2.0	221.8852	28.01	-4.43	71457.740	3.5	116512.060	3.5
221.5600	73.01	1.09	4355.506	0.0	49490.007	0.0	221.8879	25.00	-3.13	17451.520	2.5	62505.290	3.5
221.5669	14.03	-.52	291497.500	1.5	336616.550	2.5	221.8897	14.02	-1.10	209531.400	2.0	254584.800	3.0
221.5674	14.03	-.36	291497.600	2.5	336616.550	3.5	221.8915	14.00	-3.07	223.157	2.0	45276.188	1.0
221.5674	14.03	-1.67	291497.600	2.5	336616.550	2.5	221.9036	25.01	-2.35	44899.820	3.0	89950.400	3.0
221.5696	25.03	-2.44	131170.100	4.0	176288.600	5.0	221.9040	27.02	-3.30	126892.100	3.5	171942.600	4.5
221.5757	8.01	-1.54	214169.740	.5	259287.000	1.5	221.9089	25.01	-2.95	44521.520	4.0	89571.030	3.0
221.5781	23.02	-.72	56669.050	1.5	101785.810	1.5	221.9114	28.01	-.37	70778.120	3.5	115827.120	3.5
221.5790	23.01	-1.13	30641.710	3.0	75758.290	2.0	221.9158	27.00	-1.16	1406.840	2.5	46454.950	1.5
221.5803	23.02	-.92	56529.300	.5	101645.610	.5	221.9162	25.01	-3.62	36274.290	2.0	81322.330	1.0
221.5804	10.01	-2.31	279324.890	1.5	324441.190	2.5	221.9170	24.01	-2.45	21824.250	.5	66872.120	.5
221.5810	23.01	-7.29	19112.930	4.0	64229.100	5.0	221.9179	20.02	-4.41	325467.670	2.0	370515.360	3.0
221.5955	24.00	-7.69	0.000	3.0	45113.220	3.0	221.9198	24.01	-5.09	21824.820	1.5	66872.120	.5
221.5991	26.02	-4.94	134549.000	3.0	179661.480	3.0	221.9215	26.02	-3.72	137763.700	5.0	182810.660	5.0
221.5992	29.01	-4.02	71531.500	3.0	116643.960	3.0	221.9242	28.01	-1.03	68131.210	3.5	113177.610	3.5
221.5999	28.00	-3.82	2216.519	2.0	47328.850	2.0	221.9243	23.01	-3.16	9097.810	4.0	54144.200	4.0
221.6009	26.01	-4.85	15844.710	4.5	60956.820	3.5	221.9252	27.02	-1.64	128804.900	1.5	173851.100	.5
221.6022	23.02	-.17	44345.820	3.5	89457.670	2.5	221.9252	27.02	-1.64	128804.900	1.5	173851.100	.5
221.6029	26.02	-4.86	69836.830	3.0	114948.550	3.0	221.9252	27.02	-2.88	128804.900	1.5	173851.100	.5
221.6040	27.00	-6.47	0.000	4.5	45111.480	4.5	221.9261	28.01	-2.17	23108.280	2.5	68154.310	1.5
221.6052	23.01	-1.72	8640.210	2.0	53751.460	1.0	221.9262	10.03	-1.13	648060.000	1.5	693106.000	.5
221.6062	10.02	.69	391450.310	4.0	436561.350	5.0	221.9356	11.02	-1.75	418418.100	1.5	463462.200	1.5
221.6073	25.00	-4.19	17282.000	3.5	62392.820	4.5	221.9412	26.01	-4.13	15844.710	4.5	60887.660	5.5
221.6090	26.01	-3.82	26932.740	.5	72043.210	1.5	221.9444	23.01	-1.35	30673.140	2.0	75715.450	1.0
221.6111	24.00	-2.36	7927.470	2.0	53037.520	2.0	221.9463	25.00	-1.56	22996.670	3.5	68938.590	3.5
221.6117	24.01	-1.14	32603.730	2.5	77713.660	1.5	221.9471	28.01	.70	68131.210	3.5	113172.960	4.5
221.6128	27.02	-3.36	128085.200	2.5	173194.900	2.5	221.9522	26.00	-4.64	7728.058	3.0	52768.780	4.0
221.6128	27.02	-3.36	128085.200	2.5	173194.900	2.5	221.9612	24.02	-.09	63420.300	3.0	108459.200	2.0
221.6128	27.02	-2.35	128085.200	2.5	173194.900	2.5	221.9621	25.01	-3.28	34761.810	5.0	79800.520	4.0
221.6184	18.01	-1.57	155043.070	2.5	200151.640	1.5	221.9652	20.02	-4.23	328588.760	3.0	373626.850	2.0
221.6241	24.02	-.99	56992.200	3.0	102099.600	4.0	221.9671	30.02	-2.97	237642.700	3.0	282680.400	4.0
221.6299	25.01	-3.33	37811.570	1.0	82917.780	2.0	221.9676	23.01	-4.73	19191.500	6.0	64229.100	5.0
221.6326	24.01	-1.66	20512.750	5.5	65618.410	6.5	221.9694	26.01	-1.60	27314.930	3.5	72352.170	3.5
221.6363	26.02	-4.97	142908.480	5.0	188013.400	4.0	221.9697	16.01	-3.75	119242.130	1.5	164279.300	.5
221.6381	26.01	-3.23	18360.650	1.5	63465.190	1.5	221.9745	26.02	-3.66	136793.820	2.0	181830.020	3.0
221.6477	28.01	.61	8393.900	4.5	53496.490	5.5	221.9748	22.00	-6.38	170.132	3.0	45206.270	3.0
221.6502	28.01	-.49	53365.170	4.5	98467.250	3.5	221.9763	25.00	-3.19	17451.520	2.5	62487.360	2.5
221.6558	26.01	-3.41	20830.520	2.5	65931.460	3.5	221.9803	25.02	-2.95	90746.060	5.5	135781.090	5.5
221.6595	24.02	-4.34	108793.300	3.0	153893.500	2.0	221.9815	25.01	-1.91	30684.810	1.0	75719.590	1.0
221.6623	9.01	-4.57	235150.580	2.0	280250.210	2.0	221.9851	20.02	-1.85	278621.010	1.0	323655.060	2.0
221.6669	14.00	-1.00	223.157	2.0	45321.848	3.0	221.9868	30.02	-4.74	257908.200	1.0	302941.900	2.0
221.6683	24.01	-4.31	32836.840	3.5	77935.240	2.5	221.9885	10.01	-4.29	279137.620	3.5	324170.990	2.5
221.6752	27.02	-1.40	82920.700	3.5	128017.700	3.5	221.9893	26.01	-.51	21430.390	5.5	66463.590	5.5
221.6812	18.01	-3.95	155043.070	2.5	200138.850	3.5	221.9893	10.01	-2.92	279137.620	3.5	324170.990	2.5
221.6821	23.01	-3.20	19191.500	6.0	64287.100	5.0	221.9910	24.01	-4.22	29952.080	.5	74984.930	1.5
221.6860	24.02	-.97	56650.500	2.0	101745.300	3.0	221.9930	28.01	-1.33	55299.650	4.5	100332.090	4.5
221.6911	12.01	-3.63	69804.950	.5	114898.720	1.5	221.9963	18.01	-1.20	151087.250	2.5	196119.020	3.5
221.6990	28.01	-2.13	70778.120	3.5	115870.280	2.5	221.9976	26.01	-2.52	27620.390	2.5	72651.910	3.5
221.7006	12.01	-3.93	69804.950	.5	114896.790	.5	221.9977	27.02	-1.26	83773.400	1.5	128804.900	1.5
221.7042	25.01	-2.16	37847.900	2.0	82939.000	1.0	222.0029	24.01	-3.49	20512.620	2.5	65543.060	3.5
221.7059	26.01	-2.01	21581.640	4.5	66672.390	3.5	222.0089	27.00	-1.47	5075.830	1.5	50105.050	1.5
221.7080	24.01	-3.88	32844.920	1.5	77935.240	2.5	222.0100	16.05	-1.64	551848.000	2.5	596877.000	2.5
221.7156	9.03	-2.06	538397.200	2.0	583486.000	1.0	222.0100	16.05	-.33	551848.000	3.5	596877.000	2.5
221.7166	9.02	-.07	344436.960	.5	389525.550	1.5	222.0100	16.05	-.49	551848.000	2.5	596877.000	1.5
221.7189	25.01	-2.88	37847.900	2.0	82936.010	3.0	222.0119	26.02	-3.49	136797.050	3.0	181825.670	4.0
221.7229	27.02	-3.72	86283.800	4.5	131371.100	5.5	222.0130	27.01	-.41	18338.500	1.0	63366.900	2

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
222.0752	23.01	-2.30	20980.920	2.0	65996.700	3.0	222.4364	25.02	-4.70	134286.000	.5	179228.690	1.5
222.0761	27.02	-1.61	83789.300	.5	128804.900	1.5	222.4366	10.01	-2.17	279218.660	2.5	324161.310	3.5
222.0850	7.01	-4.37	166765.660	1.0	211779.450	1.0	222.4383	24.00	-3.59	8095.210	3.0	53037.520	2.0
222.0916	26.00	-3.12	415.932	3.0	45428.385	4.0	222.4408	26.02	-3.52	137544.600	2.0	182486.400	1.0
222.0968	23.03	-.71	218100.000	4.0	263111.400	4.0	222.4415	28.01	-.28	56424.490	1.5	101366.140	2.5
222.1009	25.01	-2.57	38901.800	4.0	83912.380	5.0	222.4450	70.01	-.93	0.000	0.0	44954.933	0.0
222.1027	30.02	-3.09	257962.500	2.0	302972.700	3.0	222.4468	26.01	-1.14	21308.080	1.5	66248.700	.5
222.1044	16.01	-3.53	119242.130	1.5	164252.000	1.5	222.4507	28.01	-.92	23796.180	1.5	68735.980	2.5
222.1047	30.02	-3.55	237047.800	2.0	282057.600	3.0	222.4517	25.01	-3.40	49291.310	3.0	94230.900	2.0
222.1055	28.01	.78	55299.650	4.5	100309.290	5.5	222.4546	10.01	-1.90	279218.660	2.5	324157.680	2.5
222.1065	25.01	-3.40	47073.560	3.0	92083.000	3.0	222.4553	18.01	-4.21	155043.070	2.5	199981.940	1.5
222.1159	26.01	-.58	21581.640	4.5	66589.170	4.5	222.4558	10.01	-4.97	279218.660	2.5	324157.430	1.5
222.1166	28.02	-2.52	97996.300	3.0	143003.700	4.0	222.4562	25.00	-3.55	17451.520	2.5	62390.200	1.5
222.1180	28.02	-3.11	138852.200	3.0	183859.300	3.0	222.4568	26.02	-2.40	144085.970	4.0	189024.530	5.0
222.1269	27.02	-4.16	97041.380	3.0	142047.000	4.0	222.4670	29.01	-.28	73595.640	1.0	118532.150	2.0
222.1301	18.02	-1.37	83799.600	2.5	128804.900	1.5	222.4689	26.02	-3.13	137544.600	2.0	182480.720	2.0
222.1333	26.02	-2.23	226503.220	3.0	271507.880	2.0	222.4743	24.01	-1.51	39742.360	2.5	84677.390	3.5
222.1352	18.01	-1.36	92523.910	5.0	137527.920	4.0	222.4745	24.02	-.47	69780.900	1.0	114715.900	1.0
222.1387	25.01	-2.06	160239.350	1.5	205242.970	.5	222.4861	24.01	-2.67	32844.920	1.5	77777.580	.5
222.1402	18.01	-4.74	34910.430	4.0	79913.350	4.0	222.4864	28.01	.13	9330.040	3.5	54262.630	3.5
222.1438	23.02	-1.85	151087.250	2.5	196089.870	2.5	222.4884	24.01	-1.79	35356.060	1.5	80288.250	1.5
222.1569	26.01	-2.60	43942.490	1.5	88944.380	2.5	222.4898	26.02	-1.85	73935.960	0.0	118667.870	1.0
222.1648	29.01	-3.09	27620.390	2.5	72619.610	2.5	222.4930	51.00	-.25	8469.040	0.0	53414.274	0.0
222.1723	27.02	-3.16	85388.770	2.0	130386.400	2.0	222.4968	26.00	-4.22	7985.783	2.0	52916.278	2.0
222.1744	26.02	-3.46	86283.800	4.5	131279.900	3.5	222.5149	25.01	-2.69	37847.900	2.0	82774.730	1.0
222.1791	28.01	-2.90	137423.000	3.0	182418.700	4.0	222.5161	28.01	-2.47	53634.620	1.5	98561.220	2.5
222.1829	26.02	-1.36	56371.410	3.5	101366.140	2.5	222.5197	26.02	-3.92	144085.970	4.0	189011.840	4.0
222.1831	25.00	-.53	73727.640	2.0	118721.600	2.0	222.5225	26.02	-2.78	137561.100	1.0	182486.400	1.0
222.1857	24.01	-.22	0.000	2.5	44993.920	3.5	222.5235	25.02	-1.66	90936.220	1.5	135861.320	1.5
222.1940	28.00	-1.50	39684.000	3.5	84677.390	3.5	222.5239	18.02	-.50	239193.480	1.0	284118.510	1.0
222.1943	28.01	-.20	2216.519	2.0	47208.228	1.0	222.5248	14.01	-.57	76665.610	.5	121590.450	1.5
222.2031	14.02	-.50	67694.640	2.5	112686.300	2.5	222.5255	23.01	-3.75	19132.690	2.0	64057.390	3.0
222.2036	14.02	-.66	204828.060	3.0	249817.940	4.0	222.5295	11.02	-1.35	373633.000	1.5	418556.900	.5
222.2036	25.00	-1.65	204828.060	3.0	249817.850	4.0	222.5303	25.01	-3.81	37811.570	1.0	82735.290	2.0
222.2042	26.02	-2.78	23296.670	3.5	68286.440	4.5	222.5304	26.01	-2.39	27314.930	3.5	72238.630	2.5
222.2062	14.02	-4.30	137423.000	3.0	182412.650	4.0	222.5345	28.00	-4.84	2216.519	2.0	47139.392	2.0
222.2067	18.01	-2.49	204828.060	3.0	249817.320	3.0	222.5349	27.00	-1.64	1406.840	2.5	46329.630	2.5
222.2068	18.01	-3.02	155043.070	2.5	200032.230	1.5	222.5352	25.02	-2.11	90936.220	1.5	135858.960	2.5
222.2134	9.03	-1.84	151087.250	2.5	196076.390	1.5	222.5352	22.00	-6.13	0.000	2.0	44922.730	3.0
222.2201	25.02	-2.69	538397.200	2.0	583385.000	2.0	222.5392	18.01	-4.56	157233.930	3.5	202155.860	2.5
222.2203	27.02	-4.54	90746.060	5.5	135732.500	4.5	222.5439	24.01	-1.61	39684.000	3.5	84604.990	2.5
222.2219	14.02	-.87	125369.100	2.5	170355.500	2.5	222.5475	24.01	-2.31	25033.950	3.5	69954.200	2.5
222.2227	30.02	-2.47	209599.700	4.0	254585.750	5.0	222.5506	26.02	-3.42	137561.100	1.0	182480.720	2.0
222.2227	26.02	-2.89	237642.700	3.0	282628.600	2.0	222.5543	25.00	-3.02	17568.480	1.5	62487.360	2.5
222.2233	28.01	-.41	137423.000	3.0	182408.910	3.0	222.5554	20.02	-2.51	279741.800	2.0	324660.470	3.0
222.2266	14.02	-3.96	56371.410	3.5	101357.200	4.5	222.5557	22.02	-2.14	38197.980	2.0	83116.580	3.0
222.2266	14.02	-2.52	209599.700	4.0	254584.800	3.0	222.5599	25.02	-2.77	91906.100	2.5	136823.860	3.5
222.2272	27.01	-1.42	24074.600	2.0	254584.800	4.0	222.5621	27.02	-.38	126549.300	3.5	171466.600	2.5
222.2276	14.02	-2.42	209599.700	4.0	69059.590	3.0	222.5621	27.02	-.38	126549.300	3.5	171466.600	2.5
222.2296	26.02	-3.87	209599.700	4.0	254584.600	4.0	222.5647	26.02	-3.28	137527.920	4.0	182444.700	3.0
222.2336	7.01	-4.50	76956.790	3.0	121941.290	4.0	222.5659	18.01	-.84	155043.070	2.5	199959.620	2.5
222.2390	25.02	-1.70	166765.660	1.0	211749.350	0.0	222.5693	28.01	-3.15	76402.030	2.5	121317.890	3.5
222.2414	18.01	-1.51	91906.100	2.5	136888.700	1.5	222.5697	29.00	-1.29	0.000	0.0	44929.746	0.0
222.2416	25.02	-4.53	160239.350	1.5	205221.470	1.5	222.5702	18.01	-3.77	155708.020	.5	200623.700	.5
222.2432	25.00	-4.90	131701.690	1.5	176683.760	2.5	222.5745	22.01	-5.26	0.000	1.5	44914.800	1.5
222.2454	26.01	-1.38	17052.290	4.5	62034.040	3.5	222.5762	24.01	-3.47	32355.940	3.5	77270.400	4.5
222.2539	25.01	-2.13	21430.390	5.5	66411.700	6.5	222.5772	28.01	.45	55417.830	3.5	100332.090	4.5
222.2548	30.02	-4.14	37851.150	3.0	82830.750	4.0	222.5800	27.02	-2.87	128937.400	.5	173851.100	.5
222.2581	15.00	-4.59	257962.500	2.0	302941.900	2.0	222.5800	27.02	-2.87	128937.400	.5	173851.100	.5
222.2583	15.00	-4.59	11360.800	1.5	56339.540	2.5	222.5800	27.02	-2.73	128937.400	.5	173851.100	.5
222.2583	24.00	-2.38	8095.210	3.0	53073.900	3.0	222.5801	23.01	-4.95	19112.930	4.0	64026.600	4.0
222.2588	25.02	-4.09	131287.180	.5	176265.780	1.5	222.5825	26.02	-2.91	137573.200	0.0	182486.400	1.0
222.2603	27.02	-3.75	126549.300	3.5	171527.600	3.5	222.5825	26.02	-4.19	134265.420	2.0	179178.620	3.0
222.2610	78.00	.23	6533.250	0.0	51525.408	0.0	222.5848	27.00	-1.64	8460.810	2.5	53373.530	3.5
222.2614	25.01	-1.91	34761.810	5.0	79739.880	5.0	222.5864	26.02	-3.09	141466.530	3.0	186378.940	4.0
222.2689	23.02	-.25	56669.050	1.5	101645.610	.5	222.5865	26.01	-2.79	18360.650	1.5	63273.030	2.5
222.2731	11.02	-.40	417415.500	1.5	462391.200	.5	222.5904	11.02	-.25	367052.300	1.5	411963.900	1.5
222.2832	25.01	-1.50	38901.800	4.0	83875.460	4.0	222.5929	24.01	-.57	25043.100	1.5	69954.200	2.5
222.2845	8.01	-3.28	229946.600	2.5	274920.000	1.5	222.5983	24.02	-1.87	110154.000	4.0	155064.000	4.0
222.2845	8.01	-2.14	229946.600	2.5	274920.000	2.5	222.6037	25.01	-2.88	35004.430	3.0	79913.350	4.0
222.2884	24.02	-2.76	113355.700	2.0	158328.300	2.0	222.6072	30.02	-4.26	258075.700	3.0	302983.900	4.0
222.2929	28.01	-1.52	55417.830	3.5	100389.520	2.5	222.6118	25.01	-4.65	44521.520	4.0	89428.800	3.0
222.2950	28.01	.06	8393.900	4.5	53365.170	4.5	222.6122	24.01	-3.07	20512.750	5.5	65419.950	5.5
222.3013	9.03	-.02	612830.000	2.0	657800.000	2.0	222.6124	24.01	-.95	25047.040	2.5	69954.200	2.5
222.3035	26.02	-3.40	137423.000	3.0	182392.550	2.0	222.6217	11.02	-3.69	418556.900	.5	463462.200	1.5
222.3076	24.01	-5.79	29952.080	.5	74920.800	.5	222.6261	26.02	-3.11	141399.040	2.0	186303.440	3.0
222.3142	28.01	-1.94	93528.440	3.5	138495.840	4.5	222.6262	23.01	-3.10	20980.920	2.0	65885.300	2.0
222.3191	22.00	-.56	0.000	2.0	44966.390	1.0	222.6266	24.01	-1.20	21822.860	2.5</		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
222.7105	25.01	-2.64	37847.900	2.0	82735.290	2.0
222.7162	22.01	-0.42	8710.470	1.5	53596.700	1.5
222.7177	26.01	-1.31	25428.800	5.5	70314.740	4.5
222.7183	28.01	-1.10	54557.050	4.5	99442.860	4.5
222.7237	26.02	-4.48	137527.920	4.0	182412.650	4.0
222.7266	25.01	-2.14	37851.150	3.0	82735.290	2.0
222.7281	18.01	-4.44	155351.030	1.5	200234.860	2.5
222.7297	18.01	-1.67	150147.620	2.5	195031.120	2.5
222.7298	26.02	-2.56	87901.870	3.0	132785.360	5.0
222.7375	26.01	-1.48	21581.640	4.5	66463.590	4.5
222.7422	26.02	-2.41	137527.920	4.0	182408.910	3.0
222.7451	25.02	-0.46	72183.330	3.5	117063.740	4.5
222.7512	26.01	-2.55	22637.190	4.5	67516.370	5.5
222.7537	25.01	-2.11	30684.810	1.0	75563.490	0.0
222.7606	26.01	-1.58	21711.890	3.5	66589.170	4.5
222.7665	27.00	-1.62	1809.330	1.5	46685.430	1.5
222.7671	23.01	-3.03	11295.510	0.0	56171.490	1.0
222.7672	28.01	-0.40	56371.410	3.5	101247.370	2.5
222.7692	25.02	-0.77	91948.300	3.5	136823.860	3.5
222.7775	29.00	-0.03	13227.833	0.0	58115.670	0.0
222.7787	20.02	-3.70	326186.320	3.0	371059.950	3.0
222.7801	25.01	-2.14	36274.290	2.0	81147.650	2.0
222.7839	25.01	-3.05	36364.300	1.0	81236.890	1.0
222.7844	26.02	-1.96	73849.100	1.0	118721.600	2.0
222.7861	27.00	-1.94	816.000	3.5	45688.150	2.5
222.7866	26.00	-3.61	7985.783	2.0	52857.840	1.0
222.7897	25.02	-0.95	88880.080	2.5	133751.500	3.5
222.7898	9.02	-4.55	444623.120	3.5	489494.530	3.5
222.7904	24.01	-1.56	20512.750	5.5	65384.040	4.5
222.7934	22.00	-6.13	170.132	3.0	45040.810	4.0
222.7980	26.02	-4.24	141399.040	2.0	186268.790	2.0
222.7980	76.00	-0.24	0.000	0.0	44883.706	0.0
222.7992	24.01	-1.96	25033.950	3.5	69903.460	3.5
222.7993	27.02	-2.83	126870.900	2.5	171740.400	1.5
222.7993	27.02	-2.83	126870.900	2.5	171740.400	1.5
222.8030	24.01	-2.79	32844.920	1.5	77713.660	1.5
222.8056	24.00	-3.65	8095.210	3.0	52963.440	4.0
222.8103	26.01	-0.61	38858.960	2.5	83726.240	3.5
222.8150	8.02	-0.71	313801.070	0.0	358667.400	1.0
222.8157	30.02	-3.82	258075.700	3.0	302941.900	3.0
222.8172	26.00	-2.23	415.932	3.0	45281.816	2.0
222.8181	24.01	-1.95	20518.330	3.5	65384.040	4.5
222.8228	24.00	-1.45	8307.570	4.0	53172.330	5.0
222.8234	25.01	-3.64	37847.900	2.0	82712.550	3.0
222.8241	28.01	-2.66	54176.260	5.0	99040.750	1.5
222.8250	26.02	-4.16	137544.600	2.0	182408.910	3.0
222.8250	83.00	-0.98	0.000	0.0	44878.268	0.0
222.8256	24.01	-1.91	20519.850	4.5	65384.040	4.5
222.8264	26.01	-3.44	22409.820	5.0	67273.860	1.5
222.8300	23.02	-0.25	56922.500	2.5	101785.810	1.5
222.8334	24.01	-0.29	39742.360	2.5	84604.990	2.5
222.8335	27.00	-2.96	1809.330	1.5	66671.940	2.5
222.8395	25.01	-2.31	37851.150	3.0	82712.550	3.0
222.8457	25.02	-0.42	71831.980	2.5	116492.140	2.5
222.8516	26.00	-4.78	704.003	2.0	45562.959	3.0
222.8536	24.01	-3.54	32855.090	2.5	77713.660	1.5
222.8562	22.00	-5.31	0.000	2.0	44858.030	1.0
222.8642	24.01	-1.38	25047.040	2.5	69903.460	3.5
222.8668	24.02	-3.76	71676.200	4.0	116532.100	3.0
222.8693	27.01	-3.22	1597.200	2.0	46452.600	2.0
222.8695	26.02	-4.71	90423.680	2.0	135279.040	2.0
222.8803	27.00	-2.14	1406.840	2.5	46260.020	1.5
222.8819	24.01	-0.95	39824.520	4.5	84677.390	3.5
222.8841	22.01	-1.38	8744.270	2.5	53596.700	1.5
222.8856	24.01	-4.77	30864.610	2.5	75716.740	3.5
222.8865	26.02	-3.63	137527.920	4.0	182379.860	5.0
222.8870	29.01	-0.51	23998.220	1.0	68850.060	0.0
222.8888	26.02	-1.72	89697.520	3.0	134549.000	3.0
222.8891	24.01	-2.85	35569.020	2.5	80420.430	2.5
222.8916	28.01	-3.98	70358.940	4.5	115209.850	3.5
222.9018	18.01	-3.51	150147.620	2.5	194996.490	1.5
222.9045	25.02	-1.48	91948.300	3.5	136796.610	2.5
222.9063	26.02	-2.82	137544.600	2.0	182392.550	2.0
222.9074	26.00	-2.55	704.003	2.0	45551.748	1.0
222.9102	26.02	-2.80	134360.400	4.0	179207.570	5.0
222.9155	10.01	-1.86	279324.890	1.5	324170.990	2.5
222.9225	27.02	-4.65	125690.500	3.5	170535.200	4.5
222.9225	27.02	-4.65	125690.500	3.5	170535.200	4.5
222.9238	22.01	-1.31	8710.470	1.5	53554.900	2.5
222.9261	29.01	-3.04	71531.500	3.0	116375.470	3.0
222.9265	25.03	-2.43	130969.500	3.0	175813.400	4.0
222.9340	18.01	-3.88	145668.800	1.5	190511.190	2.5
222.9399	23.01	-3.48	20089.560	1.0	64930.760	1.0
222.9493	11.02	-0.52	418418.100	1.5	463257.400	2.5
222.9512	26.02	-4.33	144116.640	3.0	188955.560	3.0
222.9515	28.01	-4.08	76402.030	2.5	121240.900	3.5
222.9530	18.01	-3.15	145668.800	1.5	190507.360	1.5
222.9568	9.03	-2.78	538397.200	2.0	583235.000	3.0
222.9614	20.02	-2.88	325467.670	2.0	370304.540	2.0
222.9620	20.02	-1.53	328588.760	3.0	373425.510	4.0
222.9634	26.01	-3.51	30764.460	3.5	75600.930	3.5
222.9635	26.00	-4.24	7376.762	4.0	52213.207	3.0
222.9645	18.01	-0.44	155043.070	2.5	199879.320	3.5
222.9659	26.02	-3.91	142047.000	4.0	186882.980	3.0
222.9668	8.01	-1.75	229946.600	2.5	274782.400	3.5
222.9693	23.01	-5.81	20980.920	2.0	65816.200	1.0
222.9740	27.00	-2.00	3482.820	4.5	48317.170	3.5
222.9740	23.02	-0.52	44110.040	2.5	88944.380	2.5
222.9766	26.02	-3.90	134360.400	4.0	179194.220	4.0
222.9781	28.01	-0.04	56424.490	1.5	101258.010	1.5
222.9792	30.02	-4.23	208041.300	2.0	252874.600	3.0
222.9817	10.01	-1.69	279324.890	1.5	324157.680	2.5
222.9830	10.01	-2.49	279324.890	1.5	324157.680	2.5
222.9833	29.01	-0.07	71493.680	2.0	116326.160	3.0
222.9841	28.01	-1.54	29070.930	1.5	73903.250	5.0
222.9884	26.02	-2.84	137561.100	1.0	182392.550	2.0
222.9936	18.01	-4.45	147503.020	1.5	192333.430	5.0
222.9940	25.01	-0.41	34761.810	5.0	79592.140	6.0
222.9941	29.02	-3.77	80551.500	2.5	125381.800	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
222.9983	25.01	-0.48	34910.430	4.0	79739.880	5.0
222.9987	23.01	-1.44	9097.810	4.0	53927.190	3.0
223.0034	7.01	-2.29	178273.380	0.0	223101.820	1.0
223.0084	29.00	-0.06	11211.395	0.0	56052.755	0.0
223.0113	24.01	-1.85	21822.860	2.5	66649.710	1.5
223.0125	29.01	-0.37	73101.870	1.0	117928.480	1.0
223.0150	25.03	-0.86	131462.500	5.0	176288.600	5.0
223.0166	28.01	-3.10	76402.030	2.5	121227.800	2.5
223.0176	25.01	-1.94	44745.460	2.0	89571.030	3.0
223.0182	24.01	-1.79	21824.250	.5	66649.710	1.5
223.0210	24.01	-1.95	21824.220	1.5	66649.710	1.5
223.0248	22.00	-5.23	0.000	2.0	44824.130	2.0
223.0310	28.01	-1.02	56424.490	1.5	101247.370	2.5
223.0310	26.02	-2.41	134937.840	2.0	179760.720	3.0
223.0319	18.01	-1.85	150474.900	1.5	195297.610	1.5
223.0324	11.02	.35	366165.300	2.5	410987.900	3.5
223.0326	25.00	-2.82	17568.480	1.5	62391.050	.5
223.0370	28.01	-1.18	56424.490	1.5	101246.160	.5
223.0371	26.02	-1.68	134937.840	2.0	179759.490	2.0
223.0380	29.01	-0.85	70841.300	3.0	115662.770	4.0
223.0411	22.01	-0.77	93.940	2.5	44914.800	1.5
223.0484	22.00	-5.31	386.874	4.0	45206.270	3.0
223.0550	28.01	-3.60	71457.740	3.5	116275.810	3.5
223.0575	24.01	-2.69	19631.280	1.5	64448.840	2.5
223.0587	26.02	-2.96	77102.430	2.0	121919.740	3.0
223.0610	83.00	-0.33	0.000	0.0	44830.786	0.0
223.0628	26.01	-3.36	26170.190	5.5	70986.690	6.5
223.0634	25.02	-2.70	100001.300	2.5	144817.680	3.5
223.0677	26.01	-2.72	27314.930	3.5	72130.440	4.5
223.0716	25.00	-6.70	0.000	2.5	44814.730	1.5
223.0729	7.01	-4.68	166521.690	1.0	211336.160	1.0
223.0732	27.02	-2.33	86283.800	4.5	131098.200	4.5
223.0771	28.00	-4.32	2216.519	2.0	47030.148	3.0
223.0797	20.02	-2.85	328588.760	3.0	373401.870	3.0
223.0810	24.01	-1.64	35607.600	3.5	80420.430	2.5
223.0817	30.02	-3.51	258171.200	5.0	302983.900	5.0
223.0871	23.01	-3.71	34228.790	3.0	79040.400	3.0
223.0920	22.01	-0.24	8744.270	2.5	53554.900	2.5
223.0928	27.01	-2.97	24886.500	2.0	69696.970	3.0
223.0930	26.01	-1.91	21711.890	3.5	66522.320	2.5
223.0932	29.01	-0.02	73353.120	2.0	118163.500	2.0
223.0953	24.00	-2.58	8307.570	4.0	53117.540	4.0
223.0957	28.00	-1.78	1713.080	1.0	46522.965	2.0
223.1001	29.01	-2.99	36427.890	0.0	81236.890	1.0
223.1019	24.01	-0.88	30150.160	6.5	74958.800	7.5
223.1024	18.01	-1.26	159706.460	.5	204515.000	.5
223.1027	22.01	-5.93	93.940	2.5	44902.420	2.5
223.1097	26.00	-2.13	11976.239	4.0	56783.306	3.0
223.1127	18.01	-4.41	150474.900	1.5	195281.380	.5
223.1170	30.02	-3.63	258178.300	4.0	302983.900	5.0
223.1191	17.02	-1.55	201332.000	1.5	246137.200	2.5
223.1214	26.00	-1.69	415.932	3.0	45220.662	3.0
223.1230	27.02	-2.22	128804.900	1.5	173609.300	1.5
223.1230	27.02	-2.22	128804.900	1.5	173609.300	1.5
223.1230	27.02	-3.00	128804.900	1.5	173609.300	1.5
223.1375	30.02	-4.94	258171.200	5.0	302972.700	4.0
223.1415	26.01	-3.93	21812.040	1.5	66612.740	1.5
223.1419	18.01	-0.86	153531.030	1.5	200151.640	1.5
223.1429	25.02	-1.12	86486.770	1.5	131287.180	.5
223.1444	24.01	-1.37	39877.280	3.5	84677.390	3.5
223.1482	26.02	-3.23	141469.550	1.0	186268.790	2.0
223.1490	26.02	-3.97	93388.750	4.0	138187.930	3.0
223.1563	29.01	-0.54	70841.300	3.0	115639.020	2.0
223.1644	25.01	-0.53	35004.430	3.0	79800.520	4.0
223.1662	26.01	-1.18	21581.640	4.5	66377.370	3.5
223.1675	26.02	-1.52	93392.450	3.0	138187.930	3.0
223.1676	26.02	-3.53	90483.590	3.0	135279.040	2.0
223.1694	20.02	-3.68	328806.780	2.0	373401.870	3.0
223.1720	50.00	-4.31	3387.616	0.0	48196.105	0.0
223.1728	30.02	-4.85	258178.300	4.0	302972.700	4.0
223.1755	27.00	-1.75	4690.180	2.5	49484.050	3.5
223.1774	26.02	-3.56	90423.680	2.0	135217.170	1.0
223.1788	24.02	.13	56650.500	2.0	101443.700	2.0
223.1797	25.00	-2.66	17282.000	3.5	62075.020	2.5
223.1818	8.01	-2.97	229946.600	2.5	274739.200	2.5
223.1978	25.00	-1.30	23549.200	2.5	68338.590	3.5
223.2072	26.01	-1.44	16369.390	3.5	61156.900	3.5
223.2077	27.01	-1.58	4560.800	3.0	49348.200	4.0
223.2087	9.03	-1.64	538597.800	3.0	583385.000	2.0
223.2133	25.00	-2.76	17568.480	1.5	62354.760	1.5
223.2191	11.02	-0.21	373633.000	1.5	418418.100	1.5
223.2197	27.02	-4.57	128017.700	3.5	172802.700	2.5
223.2222	26.02	-1.76	134976.220	3.0	179760.720	3.0
223.2272	28.01	-1.98	54557.050	4.5	99340.550	3.5
223.2279	25.01	-2.43	36364.300	1.0	81147.650	2.0
223.2283	26.02	-2.72	134976.220	3.0	179759.490	2.0
223.2358	26.02	-2.41	134976.220	3.0	179757.980	4.0
223.2366	30.02	-2.42	258171.200	5.0	302952.800	6.0
223.2366	30.02	-4.23	258171.200	5.0	302952.800	5.0
223.2408	26.01	-5.78	15844.710	4.5	60625.470	5.5
223.2435	26.02	-1.58	70694.030	5.0	115474.250	6.0
223.2443	25.01	-2.32	36274.290	2.0	81054.350	2.0
223.2468	27.00	-1.95	1406.840	2.5	46186.410	1.5
223.2507	14.01	-0.85	76665.610	.5	121444.380	.5
223.2579	25.01	-1.19	36274.290	2.0	81051.620	3.0
223.2637	26.02	-3.51	138054.590	5.0	182830.760	6.0
223.2695	26.02	-0.73	93412.930	2.0	138187.930	3.0
223.2732	26.01	-2.59	28005.830	4.5	65580.090	5.5
223.2739	23.01	-4.60	20156.640	0.0	64930.760	1.0
223.2756	25.01	-1.45	44745.460	2.0	89519.250	2.0
223.2761	25.02	-2.43	90936.220	1.5	135709.900	2.5
223.2784	28.01	-1.69	56371.410	3.5	101144.630	3.5
223.2796	56.01	-0.88	21952.422	0.0	66739.317	0.0
223.2832	26.01	-3.39	63876.380	5.5	108648.640	6.5
223.2855	27.02	-3.88	128423.100	1.5	173194.900	2.5
223.2855	27.02	-3.88	128423.100	1.5	173194.900	2.5
223.2855	27.02	-2.75	128423.100	1.5	173194.900	2.5
223.2882	27.00	-2.25	5075.830	1.5	49847.080	2.5
223.2894	21.01	-1.14	10944.510	2.0	55715.520	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
223.2895	8.01	-1.84	229968.200	1.5	274739.200	2.5	223.6243	23.01	-4.89	19112.930	4.0	63816.900	3.0
223.2918	23.02	.35	44664.960	4.5	89417.500	3.5	223.6285	26.00	-4.50	8154.713	1.0	52857.840	1.0
223.2925	27.02	-3.39	86283.800	4.5	131054.200	5.5	223.6328	10.01	-2.80	294086.490	1.5	338788.760	1.5
223.2932	26.01	-2.39	21308.080	1.5	66078.340	2.5	223.6344	26.00	-5.01	6928.266	5.0	51630.230	5.0
223.3047	18.03	-2.85	250906.600	1.5	295674.540	.5	223.6382	25.02	-4.43	134638.390	1.5	179339.590	2.5
223.3055	27.02	-4.66	126501.300	5.5	171269.100	4.5	223.6408	26.02	-2.13	134976.220	3.0	179676.890	2.0
223.3128	24.00	-3.98	8307.570	4.0	53073.900	3.0	223.6478	24.01	-1.93	20518.330	3.5	65217.610	4.5
223.3146	24.01	-2.63	29952.080	.5	74718.050	1.5	223.6489	25.02	-1.70	89052.440	3.5	133751.500	3.5
223.3169	28.02	-3.39	98238.200	4.0	143003.700	4.0	223.6525	18.01	-1.07	155708.020	.5	200406.360	.5
223.3174	26.02	-2.32	89783.590	4.0	134549.000	3.0	223.6554	24.01	-3.11	20519.850	4.5	65217.610	4.5
223.3189	26.01	-3.01	31364.470	1.5	76129.580	1.5	223.6564	28.01	-1.66	71770.830	2.5	116468.400	1.5
223.3294	10.03	-4.29	488215.000	.5	532978.000	1.5	223.6565	25.01	-2.06	31022.050	0.0	75719.590	1.0
223.3299	27.02	-3.03	83773.400	1.5	128536.300	.5	223.6585	26.00	-3.78	7985.783	2.0	52682.930	2.0
223.3354	27.02	-4.02	124765.900	5.5	169527.700	4.5	223.6612	25.03	-1.64	152858.200	3.0	197554.800	2.0
223.3357	28.01	-2.94	53037.930	2.5	97799.660	1.5	223.6628	25.00	-5.19	0.000	2.5	44696.290	2.5
223.3366	26.00	-5.37	8154.713	1.0	52916.278	2.0	223.6662	24.02	-1.37	110154.000	4.0	154849.600	5.0
223.3387	26.01	-3.60	31368.450	.5	76129.580	1.5	223.6685	26.01	-3.55	384.770	3.5	45079.910	2.5
223.3476	18.01	-1.84	155351.030	1.5	200110.380	.5	223.6692	30.02	-4.29	258277.700	3.0	302972.700	3.0
223.3578	26.02	-1.61	87901.870	3.0	132659.170	4.0	223.6692	30.02	-3.11	258277.700	3.0	302972.700	4.0
223.3614	20.02	-3.51	227432.110	1.0	272188.700	1.0	223.6793	22.01	-5.49	1215.580	4.5	45908.560	.5
223.3636	26.02	-1.45	90483.590	3.0	135239.740	4.0	223.6801	27.00	-8.82	1809.330	1.5	46502.150	.5
223.3638	23.01	-3.88	23391.090	5.0	68147.200	4.0	223.6826	26.02	-2.52	144332.210	4.0	189024.530	5.0
223.3699	25.01	-2.79	49427.320	4.0	94182.200	3.0	223.6855	25.00	-3.11	17052.290	4.5	61744.040	5.5
223.3736	25.01	-3.52	37851.150	3.0	82605.290	4.0	223.6866	24.01	-3.72	33418.110	2.5	78109.640	1.5
223.3748	25.00	-3.43	17637.150	.5	62391.050	.5	223.6872	22.02	-2.15	38425.190	3.0	83116.580	3.0
223.3750	26.01	-4.82	63876.380	5.5	108630.240	5.5	223.6940	25.01	-1.85	36364.300	1.0	81054.350	2.0
223.3752	26.01	-3.60	0.000	4.5	44753.620	3.5	223.6949	28.01	-1.15	29593.460	.5	74283.330	.5
223.3766	27.00	-2.05	1809.330	1.5	46562.870	1.5	223.6987	27.01	-4.13	11321.500	2.0	56010.600	2.0
223.3788	24.02	.26	56992.200	3.0	101745.300	3.0	223.7068	27.02	-4.40	82363.300	4.5	127050.800	4.5
223.3791	25.00	-3.60	17637.150	.5	62390.200	1.5	223.7132	27.00	-1.58	4142.660	3.5	48828.870	2.5
223.3803	27.02	-3.60	126987.600	1.5	171740.400	1.5	223.7152	26.02	-3.45	92523.910	5.0	137209.730	4.0
223.3803	27.02	-3.60	126987.600	1.5	171740.400	1.5	223.7180	26.02	-3.78	134976.220	3.0	179661.480	3.0
223.3812	28.01	-2.26	68154.310	1.5	112906.930	1.5	223.7212	18.02	-2.42	186657.200	3.0	231341.800	2.0
223.3813	22.00	-5.11	170.132	3.0	44922.730	3.0	223.7232	23.01	-3.77	19132.690	2.0	63816.900	3.0
223.3841	25.00	-3.04	17282.000	3.5	62034.040	3.5	223.7373	26.01	-3.13	63948.840	4.5	108630.240	5.5
223.3868	27.02	-1.66	83773.400	1.5	128524.900	2.5	223.7383	18.01	-2.75	155351.030	1.5	200032.230	1.5
223.3914	18.01	-3.47	174409.830	1.5	219160.400	2.5	223.7387	8.01	-3.81	231427.990	3.5	276109.100	4.5
223.3917	26.01	-4.45	20805.830	4.5	65556.340	4.5	223.7453	25.02	-4.61	86051.500	2.5	130731.310	3.5
223.4009	26.02	-3.87	105906.230	2.0	150654.900	3.0	223.7568	24.02	-4.37	57422.100	4.0	102099.600	4.0
223.4033	25.02	-1.80	71831.980	2.5	116580.170	1.5	223.7568	26.01	-4.13	38458.990	4.5	83136.500	3.5
223.4038	30.02	-2.58	237506.800	1.0	282254.900	1.0	223.7577	24.01	-4.48	30307.600	1.5	74984.930	1.5
223.4071	25.01	-1.75	44315.170	6.0	89062.600	5.0	223.7596	22.01	-4.56	225.470	3.5	44902.420	2.5
223.4087	9.02	-4.33	415394.510	1.5	460141.630	2.5	223.7633	23.03	-1.33	220343.500	1.0	265019.700	1.0
223.4093	27.02	-2.48	83789.300	.5	128536.300	.5	223.7679	26.02	-3.06	93512.640	4.0	138187.930	3.0
223.4147	26.02	-3.22	145038.610	3.0	189784.520	2.0	223.7719	18.01	-1.28	150147.620	2.5	194822.100	3.5
223.4183	30.02	-3.29	238205.500	1.0	282950.700	2.0	223.7786	26.02	-1.85	90423.680	2.0	135096.840	3.0
223.4188	26.02	-2.19	134937.840	2.0	179682.940	1.0	223.7803	26.01	-3.53	18886.750	.5	63559.560	.5
223.4200	25.02	-1.13	89204.690	4.5	133949.540	4.5	223.7807	28.01	-7.79	68735.980	2.5	113408.170	1.5
223.4206	26.02	-4.36	157684.300	2.0	202429.040	1.0	223.7818	26.00	-2.40	12968.552	2.0	57641.060	3.0
223.4222	24.01	-2.15	20512.620	2.5	65257.030	3.5	223.7824	26.01	-5.04	16369.390	3.5	61041.780	2.5
223.4227	30.02	-3.58	258239.600	4.0	302983.900	4.0	223.7849	27.02	-3.50	128937.400	.5	173609.300	1.5
223.4292	13.01	-2.88	95348.200	0.0	140091.200	1.0	223.7849	27.02	-3.50	128937.400	.5	173609.300	1.5
223.4362	26.01	-2.46	31387.980	2.5	76129.580	1.5	223.7849	27.02	-2.72	128937.400	.5	173609.300	1.5
223.4427	25.02	-2.08	89898.080	.5	134638.390	1.5	223.7877	28.01	-4.43	68735.980	2.5	113407.310	2.5
223.4432	26.00	-1.79	12968.552	2.0	57708.760	2.0	223.7883	25.01	-1.20	44899.820	3.0	89571.030	3.0
223.4447	26.00	-5.24	6928.266	5.0	51668.175	4.0	223.7890	25.02	-4.41	100001.300	2.5	144672.380	2.5
223.4490	26.02	-3.32	134937.840	2.0	179676.890	2.0	223.7892	26.01	-4.62	33466.500	4.5	78137.530	3.5
223.4507	24.01	-2.23	20518.330	3.5	65257.030	3.5	223.7913	23.02	-4.21	42267.400	2.5	86938.010	2.5
223.4531	28.01	-2.61	73893.730	1.5	118631.950	.5	223.7944	27.02	-2.90	128524.900	2.5	173194.900	2.5
223.4583	24.01	-1.81	20519.850	4.5	65257.030	3.5	223.7944	27.02	-2.90	128524.900	2.5	173194.900	2.5
223.4610	76.00	.95	2661.698	0.0	47412.236	0.0	223.7944	27.02	-2.86	128524.900	2.5	173194.900	2.5
223.4657	24.02	-1.64	109721.400	3.0	154457.100	4.0	223.7956	25.01	-4.27	43528.300	5.0	88198.070	6.0
223.4673	18.01	-1.58	150147.620	2.5	194883.000	3.5	223.8026	25.02	-5.59	72183.330	3.5	116851.690	3.5
223.4684	27.00	-3.51	8460.810	2.5	53195.980	2.5	223.8034	25.00	-2.63	23296.670	3.5	67964.870	2.5
223.4715	10.01	-1.70	279422.890	.5	324157.430	1.5	223.8153	26.02	-4.46	93388.750	4.0	138054.590	5.0
223.4717	27.00	-.52	3482.820	4.5	48217.320	3.5	223.8171	26.01	-1.36	21711.890	3.5	66377.370	3.5
223.4853	26.01	-2.41	27620.390	2.5	72352.170	3.5	223.8235	30.02	-4.06	258277.700	3.0	302941.900	3.0
223.4862	25.01	-4.22	27589.030	2.0	72320.620	1.0	223.8241	25.01	-3.29	27583.300	4.0	72247.380	3.0
223.4960	15.00	-3.54	11360.800	1.5	56090.450	1.5	223.8251	26.02	-2.12	135096.840	3.0	179760.720	3.0
223.5053	18.01	-3.74	144709.910	.5	189437.690	.5	223.8264	26.00	-2.63	888.132	1.0	45551.748	1.0
223.5056	24.01	-1.03	39877.280	3.5	84604.990	2.5	223.8301	26.02	-1.68	89697.520	3.0	134360.400	4.0
223.5086	25.01	-2.06	43131.400	2.0	87058.910	2.0	223.8312	26.02	-3.03	135096.840	3.0	179759.490	2.0
223.5155	26.02	-4.58	105929.160	3.0	150654.900	3.0	223.8333	25.00	-4.34	17052.290	4.5	61714.520	4.5
223.5177	27.02	-.96	83799.600	2.5	128524.900	2.5	223.8335	30.02	-1.96	237506.800	1.0	282169.000	2.0
223.5214	26.02	-3.27	83646.980	1.0	128371.530	0.0	223.8388	26.02	-2.12	135096.840	3.0	179757.980	4.0
223.5229	18.02	-2.58	186903.050	2.0	231627.300	1.0	223.8405	22.01	-4.45	24961.340	1.5	69622.150	2.5
223.5239	26.01	-4.24	16369.390	3.5	61093.440	2.5	223.8459	28.01	-4.46	57080.550	3.5	101740.270	3.5
223.5247	23.03	-.78	220343.500	1.0	265067.400	2.0	223.8488	25.01	-3.83	27588.230			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
223.9468	11.02	-3.32	367561.900	.5	412201.500	.5	224.2674	9.01	-4.47	254015.400	2.0	298591.200	2.0
223.9480	73.01	1.43	2581.041	0.0	47234.264	0.0	224.2677	28.01	.64	54557.050	4.5	99132.780	5.5
223.9523	24.01	-2.19	20518.330	3.5	65156.840	2.5	224.2680	9.01	-4.15	254014.830	1.0	298590.500	1.0
223.9589	9.03	-1.94	538597.800	3.0	583235.000	3.0	224.2696	29.01	-.96	73353.120	2.0	117928.480	1.0
223.9600	26.02	-3.62	135239.740	4.0	179876.710	4.0	224.2709	9.01	-4.84	254015.400	2.0	298590.500	1.0
223.9614	18.01	-3.04	155043.070	2.5	199679.760	2.5	224.2714	27.02	-.73	91715.100	2.5	136290.100	3.5
223.9638	26.01	-1.52	33501.320	3.5	78137.530	3.5	224.2728	9.01	-4.88	254016.480	3.0	298591.200	2.0
223.9674	27.02	-4.89	126892.100	3.5	171527.600	3.5	224.2739	27.02	-.71	126892.100	3.5	171466.600	2.5
223.9709	27.02	-2.25	82363.300	4.5	126998.100	4.5	224.2739	27.02	-.71	126892.100	3.5	171466.600	2.5
223.9759	27.02	-3.04	83789.300	.5	128423.100	1.5	224.2740	25.02	-.79	90936.220	1.5	135510.700	2.5
223.9858	24.01	-2.73	32355.940	3.5	76987.780	2.5	224.2781	26.00	-2.73	978.076	0.0	45551.748	1.0
223.9884	25.02	-2.98	131287.180	.5	175918.500	.5	224.2873	23.02	-1.36	103034.650	4.5	147606.500	3.5
223.9905	18.01	-3.57	155351.030	1.5	199981.940	1.5	224.2886	25.01	-3.24	37847.900	2.0	82419.480	3.0
223.9968	28.01	-4.29	71457.740	3.5	116087.380	4.5	224.2962	26.02	-4.46	142312.900	3.0	186882.980	3.0
224.0005	25.01	-.87	41182.530	7.0	85811.430	7.0	224.3021	26.00	-4.25	7728.058	3.0	52296.760	2.0
224.0065	25.02	-4.12	133059.840	3.5	177687.540	3.5	224.3026	25.03	-3.05	152986.000	2.0	197554.600	2.0
224.0169	23.02	-.59	109854.870	3.5	154480.500	4.5	224.3041	13.01	-2.23	95348.200	0.0	139916.700	1.0
224.0185	28.01	-.39	68281.620	.5	112906.930	1.5	224.3050	25.01	-1.95	37851.150	3.0	82419.480	3.0
224.0206	27.02	-4.93	127317.700	3.5	171942.600	4.5	224.3060	39.01	-.35	0.000	0.0	44581.955	0.0
224.0208	24.00	-5.94	8095.210	3.0	52720.070	4.0	224.3071	26.02	-3.05	89697.520	3.0	134265.420	2.0
224.0276	25.00	-3.01	17451.520	2.5	62075.020	2.5	224.3073	29.01	-.77	73595.640	1.0	118163.500	2.0
224.0276	27.02	-2.10	83799.600	2.5	128423.100	1.5	224.3086	15.01	-2.84	87805.000	2.0	123272.600	1.0
224.0342	26.01	-3.28	667.640	2.5	45289.840	1.5	224.3124	24.01	-4.45	30391.960	6.5	74959.800	7.5
224.0352	11.05	-.74	951389.000	2.0	996011.000	2.0	224.3126	23.02	-4.31	42371.200	1.5	86938.010	2.5
224.0404	25.01	-2.54	41190.470	6.0	85811.430	7.0	224.3147	30.02	-4.24	211725.500	2.0	256291.900	1.0
224.0431	9.02	-4.70	415184.120	.5	459804.550	1.5	224.3152	26.02	-4.02	138264.470	6.0	182830.760	6.0
224.0438	26.02	-3.74	137209.730	4.0	181830.020	3.0	224.3172	27.02	-2.35	128017.700	3.5	172583.600	3.5
224.0448	26.01	-4.32	16369.390	3.5	60989.480	4.5	224.3172	27.02	-2.35	128017.700	3.5	172583.600	3.5
224.0481	25.01	-2.75	44899.820	3.0	89519.250	2.0	224.3172	27.02	-2.30	128017.700	3.5	172583.600	3.5
224.0540	26.01	-1.90	27620.390	2.5	72238.630	2.5	224.3193	25.01	-2.98	44899.820	3.0	89465.300	4.0
224.0558	25.02	-4.69	100001.300	2.5	144619.190	1.5	224.3202	28.02	-2.49	138487.400	3.0	183052.700	4.0
224.0623	23.02	-.82	439424.490	1.5	88559.080	1.5	224.3212	28.00	-2.64	0.000	4.0	44565.100	3.0
224.0627	26.00	-1.19	11976.239	4.0	56592.760	4.0	224.3212	22.01	-4.38	983.800	2.5	45548.900	1.5
224.0645	26.02	-4.39	137763.700	5.0	182379.860	5.0	224.3213	25.02	-3.62	100054.100	.5	144619.190	1.5
224.0649	14.00	-3.28	15394.370	0.0	60010.458	1.0	224.3221	22.01	-4.12	907.960	1.5	45472.890	.5
224.0656	26.02	-3.42	137209.730	4.0	181825.670	4.0	224.3236	26.02	-2.56	135096.840	3.0	179661.480	3.0
224.0728	30.02	-3.26	238336.200	2.0	282950.700	2.0	224.3250	27.00	-2.16	1406.840	2.5	45971.190	3.5
224.0748	27.00	-2.63	8460.810	2.5	53074.920	1.5	224.3263	25.02	-2.81	131701.690	1.5	176265.780	1.5
224.0791	26.02	-2.99	90483.590	3.0	135096.840	3.0	224.3282	26.01	-4.15	48039.230	2.5	92602.940	3.5
224.0887	23.01	-4.03	2808.760	3.0	47420.100	4.0	224.3283	24.01	-.92	30143.720	5.5	74707.420	5.5
224.1024	15.01	-3.51	86744.700	1.0	131353.300	2.0	224.3302	9.01	-3.47	254016.480	3.0	298579.800	4.0
224.1025	27.02	-3.83	128524.900	2.5	173133.500	1.5	224.3411	26.02	-1.56	70728.750	4.0	115289.910	5.0
224.1025	18.01	-.80	155351.030	1.5	199959.620	2.5	224.3429	9.01	-4.52	254015.400	2.0	298576.200	3.0
224.1159	8.01	-4.78	185340.680	1.5	229946.600	2.5	224.3440	9.01	-4.57	254014.830	1.0	298575.400	2.0
224.1170	28.02	-2.21	139253.600	2.0	183859.300	3.0	224.3469	9.01	-3.67	254015.400	2.0	298575.400	2.0
224.1204	24.01	-3.15	38315.000	2.5	82920.030	1.5	224.3483	9.01	-3.68	254016.480	3.0	298576.200	3.0
224.1232	25.01	-4.27	44521.520	4.0	89126.000	3.0	224.3524	9.01	-4.04	254016.480	3.0	298575.400	2.0
224.1300	24.01	-.71	25035.640	.5	69638.770	1.5	224.3578	26.01	-2.88	20805.830	4.5	65363.660	5.5
224.1341	25.01	-2.84	34910.430	4.0	79512.730	3.0	224.3597	24.01	-4.78	38362.560	1.5	82920.030	1.5
224.1346	27.01	-5.49	19189.900	4.0	63792.100	4.0	224.3607	24.01	.03	30150.160	6.5	74707.420	5.5
224.1376	26.01	-2.66	18360.450	1.5	62962.760	1.5	224.3610	22.01	-4.63	8997.690	3.5	53554.900	2.5
224.1420	26.01	-.10	38858.960	2.5	83459.700	1.5	224.3660	18.01	-1.14	150474.900	1.5	195031.120	2.5
224.1476	24.01	-.86	30143.720	5.5	74743.330	6.5	224.3716	28.01	-.87	68131.210	3.5	112686.300	2.5
224.1500	24.01	-2.90	31117.590	2.5	75716.740	3.5	224.3723	25.01	-3.06	41204.340	5.0	85759.300	4.0
224.1509	26.02	-4.73	137209.730	4.0	181808.700	5.0	224.3802	27.02	-4.53	126475.500	6.5	171028.900	5.5
224.1529	23.02	-.06	44345.820	3.5	88944.380	2.5	224.3845	26.02	-1.93	90423.680	2.0	134976.220	3.0
224.1561	26.02	-1.51	86847.110	2.0	131445.030	2.0	224.3871	9.01	-4.84	254016.480	3.0	298568.500	4.0
224.1569	28.01	.20	54557.050	4.5	99154.810	4.5	224.3877	9.01	-3.69	254015.400	2.0	298567.300	3.0
224.1598	27.02	-3.38	128536.300	.5	173133.500	1.5	224.3878	26.01	-3.27	2837.940	2.5	47389.820	1.5
224.1603	27.01	-1.18	27106.000	6.0	71703.100	5.0	224.3906	26.00	-2.19	0.000	4.0	44551.325	3.0
224.1658	27.00	-2.79	1406.840	2.5	46002.830	2.5	224.3932	9.01	-3.61	254016.480	3.0	298567.300	3.0
224.1664	26.02	-2.69	70694.030	5.0	115289.910	5.0	224.3935	26.01	-3.18	31364.470	1.5	77915.210	2.5
224.1673	27.02	-4.37	126870.900	2.5	171466.600	2.5	224.3984	27.01	-1.25	25147.200	4.0	69694.970	3.0
224.1673	27.02	-4.37	126870.900	2.5	171466.600	2.5	224.4019	28.01	-2.03	73893.730	1.5	118442.810	1.5
224.1675	24.01	-1.03	25043.100	1.5	66368.770	1.5	224.4035	26.01	-1.89	27620.390	2.5	72169.150	1.5
224.1724	25.00	-2.14	23296.470	3.5	67891.360	3.5	224.4076	24.01	-4.32	31168.780	3.5	75716.740	3.5
224.1741	26.02	-4.38	135088.600	0.0	179682.940	1.0	224.4081	18.01	-2.16	157233.930	3.5	201781.790	2.5
224.1770	18.01	-.91	174409.830	1.5	219003.600	2.5	224.4094	26.02	-3.41	84369.920	2.0	128917.510	2.0
224.1787	28.01	-2.50	93528.440	3.5	138121.880	4.5	224.4098	25.01	-2.34	43311.000	1.0	87858.510	2.0
224.1800	24.01	-.41	30150.160	6.5	74743.330	6.5	224.4124	24.02	.36	49827.700	3.0	94374.700	4.0
224.1809	28.02	-3.02	97841.400	2.0	142434.400	2.0	224.4133	25.02	-1.25	89204.690	4.5	133751.500	3.5
224.1822	26.01	-1.96	20516.980	2.5	65109.710	3.5	224.4150	24.01	-2.70	30307.600	1.5	74854.080	.5
224.1824	15.01	-2.91	87805.000	2.0	132397.700	2.0	224.4200	11.02	-.82	418418.100	1.5	462963.600	1.5
224.1840	26.00	-3.42	7376.762	4.0	51969.140	3.0	224.4214	26.01	-.40	39013.280	1.5	83558.500	.5
224.1860	18.01	-1.77	174409.830	1.5	219001.800	1.5	224.4255	13.01	-2.59	95546.800	3.0	140091.200	2.0
224.1873	24.01	-2.09	25047.040	2.5	69638.770	1.5	224.4265	29.00	-2.05	0.000	0.0	44558.016	0.0
224.1929	24.01	-3.78	31219.490	4.5	75810.100	4.5	224.4311	13.01	-2.95	95547.900	2.0	140091.200	1.0
224.1935	26.02	-1.87	93512.640	4.0	138103.120	4.0	224.4311	13.01	-3.34	95547.900	2.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
224.4936	24.01	-1.65	21824.250	.5	66355.130	1.5	224.8094	26.01	-2.05	26055.400	2.5	70523.730	3.5
224.4965	24.01	-6.09	21824.820	1.5	66355.130	1.5	224.8108	29.01	-2.30	71919.930	3.0	116388.000	2.0
224.4976	28.01	-4.88	77332.470	2.5	121862.570	3.5	224.8118	28.01	-2.73	77332.470	2.5	121800.340	1.5
224.4981	27.02	-4.91	126549.300	3.5	171079.300	3.5	224.8152	25.01	-4.34	43528.300	5.0	87995.500	5.0
224.4981	27.02	-4.91	126549.300	3.5	171079.300	3.5	224.8187	25.03	-1.09	130969.500	3.0	175436.000	3.0
224.4981	27.02	-3.94	126549.300	3.5	171079.300	3.5	224.8224	26.02	-2.89	135217.170	1.0	179682.940	1.0
224.4985	9.01	-4.17	254016.480	3.0	298546.400	3.0	224.8297	24.01	-2.23	25033.950	3.5	69498.270	4.5
224.5005	8.01	-4.81	231350.080	2.5	275879.600	3.5	224.8368	28.01	-1.99	72375.420	1.5	116838.330	1.5
224.5041	27.02	-2.37	82363.300	4.5	126892.100	3.5	224.8420	28.02	-3.18	137020.400	5.0	181482.300	4.0
224.5071	26.00	-4.65	8154.713	1.0	52682.930	2.0	224.8459	23.01	-3.55	20343.000	2.0	64804.130	2.0
224.5114	18.01	-4.04	145668.800	1.5	190196.160	.5	224.8480	73.01	1.18	9678.902	0.0	54153.391	0.0
224.5120	26.01	-2.76	31387.980	2.5	75915.210	2.5	224.8530	26.02	-3.13	135217.170	1.0	179676.890	2.0
224.5132	27.01	-7.77	4028.900	4.0	48555.900	5.0	224.8560	24.01	-4.40	25047.040	2.5	69506.160	3.5
224.5141	9.01	-3.16	254016.480	3.0	298543.300	4.0	224.8586	25.01	-4.66	43536.900	4.0	87995.500	5.0
224.5148	26.00	-3.95	7985.783	2.0	52512.460	1.0	224.8608	22.01	-7.96	1215.580	4.5	45673.750	4.5
224.5205	9.01	-4.09	254014.830	1.0	298540.400	1.0	224.8661	25.01	-1.37	44315.170	6.0	88772.300	5.0
224.5228	27.01	-6.00	27484.300	3.0	72009.400	4.0	224.8683	27.01	-2.07	3350.500	5.0	47807.200	4.0
224.5258	23.01	-6.48	19132.690	2.0	63657.200	2.0	224.8709	18.02	-1.34	187171.120	1.0	231627.300	1.0
224.5305	9.01	-3.86	254014.830	1.0	298538.400	2.0	224.8741	10.01	-3.11	294333.220	.5	338788.760	.5
224.5311	25.00	-4.29	0.000	2.5	44523.450	3.5	224.8750	74.01	.46	0.000	0.0	44469.150	0.0
224.5329	24.01	-1.06	32355.940	3.5	76879.030	3.5	224.8785	25.01	-3.48	39813.380	2.0	84268.060	1.0
224.5334	9.01	-4.10	254015.400	2.0	298538.400	2.0	224.8807	26.02	-2.86	90483.590	3.0	134937.840	2.0
224.5359	25.00	-2.65	23296.670	3.5	67819.170	4.5	224.8828	26.02	-1.96	144501.740	2.0	188955.560	3.0
224.5405	18.01	-2.07	150474.900	1.5	194996.490	1.5	224.8841	25.01	-3.17	41182.530	7.0	85636.100	6.0
224.5412	28.01	-2.93	53601.190	1.5	98122.630	.5	224.8859	26.00	-2.65	6928.266	5.0	51381.480	4.0
224.5426	7.01	-4.11	166582.450	2.0	711103.630	3.0	224.8884	23.01	-2.98	25191.080	2.0	69644.200	3.0
224.5436	26.02	-2.72	135239.740	4.0	179760.720	3.0	224.8880	7.02	-7.78	267238.500	1.5	311691.300	.5
224.5470	27.00	-2.20	1809.330	1.5	46329.630	2.5	224.8893	26.02	-1.91	89907.850	4.0	134360.400	4.0
224.5490	26.01	.42	38458.990	4.5	82978.900	4.5	224.8893	26.02	-2.78	89907.850	5.0	134360.400	4.0
224.5515	25.01	-4.08	43339.100	2.0	87858.510	2.0	224.8926	23.01	-2.85	2968.220	4.0	47420.100	4.0
224.5542	26.02	-1.89	73727.640	2.0	118246.520	3.0	224.8946	24.02	-2.85	56992.200	3.0	101443.700	2.0
224.5574	26.02	-1.57	135239.740	4.0	179757.980	4.0	224.8947	29.01	-4.04	71919.930	3.0	116371.410	4.0
224.5581	27.02	-1.24	86283.800	4.5	130801.900	4.5	224.8987	27.00	-2.77	1809.330	1.5	46260.020	1.5
224.5600	28.01	-4.44	56075.260	2.5	100592.980	3.5	224.9027	28.01	-2.50	70635.460	2.5	115085.360	3.5
224.5611	28.02	-3.28	136964.800	3.0	181482.300	4.0	224.9050	26.01	.14	38858.960	2.5	83308.400	2.5
224.5654	26.00	-2.02	704.003	2.0	45220.662	3.0	224.9050	23.02	-4.77	42267.400	2.5	86716.840	1.5
224.5677	56.01	-2.59	4873.850	0.0	49403.851	0.0	224.9064	26.01	-3.36	39109.340	.5	83558.500	.5
224.5687	24.02	-1.23	109569.700	2.0	154085.700	3.0	224.9070	23.02	-6.63	44110.040	2.5	88559.080	1.5
224.5702	27.02	-4.83	127224.700	.5	171740.400	1.5	224.9072	26.00	-4.97	7376.762	4.0	51825.758	3.0
224.5702	27.02	-4.83	127224.700	.5	171740.400	1.5	224.9115	14.02	-3.00	209559.330	3.0	254007.480	3.0
224.5780	26.02	-1.78	90423.680	2.0	134937.840	2.0	224.9153	8.01	-4.23	185499.200	2.5	229946.600	2.5
224.5782	17.01	-4.63	128729.800	3.0	173243.900	4.0	224.9171	26.00	-1.10	11976.239	4.0	56423.276	4.0
224.5858	30.02	-4.16	260418.100	2.0	304930.700	2.0	224.9179	26.01	-1.13	0.000	4.5	44446.890	3.5
224.5858	30.02	-3.01	260418.100	2.0	304930.700	3.0	224.9203	26.01	-1.10	39013.280	1.5	83459.700	1.5
224.5971	18.01	-4.83	170400.940	2.5	214911.300	2.5	224.9209	30.02	-2.86	238205.500	1.0	282651.800	1.0
224.6019	26.01	-3.04	25805.320	4.5	70314.740	4.5	224.9243	26.00	-3.83	6928.266	5.0	51373.894	5.0
224.6050	25.02	-2.11	72183.330	3.5	116692.140	2.5	224.9243	25.01	-4.97	41190.470	6.0	85636.100	6.0
224.6050	50.00	.22	0.000	0.0	44522.606	0.0	224.9251	25.00	-4.12	17282.000	3.5	61727.460	2.5
224.6057	26.01	-4.07	3117.480	1.5	47626.140	.5	224.9275	23.01	-6.24	3162.800	5.0	47607.790	6.0
224.6069	26.02	-1.70	135239.740	4.0	179748.170	5.0	224.9292	14.02	-2.09	209559.330	3.0	254004.000	2.0
224.6075	25.01	-2.17	35004.430	3.0	79512.730	3.0	224.9297	24.01	-3.87	30298.770	5.5	74743.330	6.5
224.6161	17.02	-3.70	204021.600	.5	248528.200	1.5	224.9300	78.00	-7.77	0.000	0.0	44458.276	0.0
224.6164	25.00	-2.93	17568.480	1.5	62075.020	2.5	224.9320	24.01	-2.59	25033.950	3.5	69478.060	2.5
224.6230	25.02	-4.53	132971.990	3.5	177477.230	2.5	224.9345	18.01	-1.25	155708.020	.5	200151.640	1.5
224.6325	25.00	-4.85	18402.460	2.5	62905.810	2.5	224.9373	28.01	-2.26	68965.650	1.5	113408.710	1.5
224.6328	30.02	-2.96	238336.200	2.0	282839.500	3.0	224.9444	28.01	-4.06	68965.650	1.5	113407.310	2.5
224.6335	23.01	-3.17	2604.820	1.0	47107.980	1.0	224.9445	28.01	-4.64	68735.980	2.5	113177.610	3.5
224.6497	28.01	-3.80	70358.940	4.5	114858.880	5.5	224.9449	26.02	-2.67	135316.420	5.0	179757.980	4.0
224.6542	25.01	-4.16	39808.140	3.0	84307.200	4.0	224.9452	25.01	-2.53	39826.570	1.0	84268.060	1.0
224.6575	27.02	-2.78	128085.200	2.5	172583.600	3.5	224.9461	26.02	-2.81	144570.530	3.0	189011.840	4.0
224.6575	27.02	-2.78	128085.200	2.5	172583.600	3.5	224.9538	25.01	-2.34	27570.950	5.0	72010.750	4.0
224.6575	27.02	-2.72	128085.200	2.5	172583.600	3.5	224.9547	25.02	-4.10	134789.080	.5	179228.690	1.5
224.6603	27.00	-2.21	1406.840	2.5	45904.680	1.5	224.9591	18.02	-2.88	186903.050	2.0	231341.800	2.0
224.6643	25.02	-1.24	89307.220	5.5	133804.280	6.5	224.9601	24.00	-4.59	7593.160	2.0	52031.720	3.0
224.6643	23.01	-3.86	2604.820	1.0	47101.880	2.0	224.9624	28.02	-3.24	97996.300	3.0	142434.400	2.0
224.6662	23.01	-3.15	20089.560	1.0	64586.230	2.0	224.9635	26.01	-5.34	16369.390	3.5	60807.280	4.5
224.6701	11.02	.11	367052.300	1.5	411548.200	2.5	224.9658	18.01	-3.09	145668.800	1.5	190106.230	1.5
224.6789	23.01	-3.73	2687.010	2.0	47181.170	3.0	224.9698	26.01	-2.80	21812.040	1.5	66248.670	.5
224.6866	26.02	-2.35	90483.590	3.0	134976.220	3.0	224.9734	26.02	-3.40	73727.640	2.0	118163.560	2.0
224.6878	24.02	-3.36	109237.400	1.0	153729.800	1.0	224.9783	24.01	-1.69	25043.100	1.5	69478.060	2.5
224.6880	82.00	-8.85	7743.122	0.0	52249.282	0.0	224.9790	73.01	.62	0.000	0.0	44448.593	0.0
224.6916	26.01	-1.30	20340.360	5.5	64832.000	4.5	224.9840	74.00	-4.33	1613.150	0.0	46060.755	0.0
224.6927	24.01	-3.48	38362.560	1.5	82854.000	.5	224.9854	24.01	-3.93	32836.840	3.5	77270.400	4.5
224.6948	23.01	-3.67	19166.190	1.0	63657.200	2.0	224.9880	25.00	-4.82	17052.290	4.5	61489.340	4.5
224.7000	29.01	.76	21777.530	0.0	66281.313	0.0	224.9906	24.01	-2.20	21824.250	.5	66256.770	.5
224.7003	29.01	.15	21928.600	3.0	66418.520	2.0	224.9906	25.00	-3.19	17282.000	3.5	61714.520	4.5
224.7081	24.01	-3.96	30219.040	4.5	74707.420	5.5	224.9932	26.01	-4.73	31483.200	3.5	75915.210	2.5
224.7230	28.01	-7.76	23798.180	1.5	68281.620	.5	224.9935	24.01	-1.46	21824.250	1.5	66256.770	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
225.0753	23.01	-5.94	19132.690	2.0	63548.500	1.0	225.3191	23.01	-4.62	11295.510	0.0	55663.270	1.0
225.0759	28.01	-6.61	56075.260	2.5	100490.950	1.5	225.3257	26.01	-1.31	21711.890	3.5	66078.340	2.5
225.0760	25.00	-2.05	23549.200	2.5	67964.870	2.5	225.3281	22.01	.31	24961.340	1.5	69327.320	1.5
225.0760	73.01	1.15	967.890	0.0	45397.327	0.0	225.3282	23.02	-4.94	103034.650	4.5	147400.620	4.5
225.0791	26.00	-2.82	0.000	4.0	44415.057	4.0	225.3301	24.01	-2.12	31351.150	2.5	75716.740	3.5
225.0799	30.02	-2.38	237642.700	3.0	282057.600	3.0	225.3337	23.01	-5.32	2687.010	2.0	47051.890	3.0
225.0801	23.01	-2.86	2687.010	2.0	47101.880	2.0	225.3376	26.02	-2.45	138054.590	5.0	182418.700	4.0
225.0829	30.02	-4.17	216464.500	4.0	260878.800	3.0	225.3380	77.00	.77	7017.204	0.0	51394.983	0.0
225.0844	24.01	-4.23	33521.230	3.5	77935.240	2.5	225.3427	30.02	-2.69	208041.300	2.0	252404.400	3.0
225.0845	27.02	-2.02	91715.100	2.5	136129.100	2.5	225.3443	27.02	-4.89	125992.700	2.5	170355.500	2.5
225.0879	8.01	-4.76	231427.990	3.5	275841.300	3.5	225.3452	26.01	-3.35	42237.050	3.5	86599.660	2.5
225.0879	8.01	-4.94	231427.990	3.5	275841.300	4.5	225.3459	26.02	-.61	166252.740	3.0	210615.210	3.0
225.0921	24.00	-5.66	8307.570	4.0	52720.070	4.0	225.3523	23.01	-4.71	20242.320	4.0	64603.530	3.0
225.0926	28.01	-.95	54557.050	4.5	98969.440	5.5	225.3545	24.01	-2.88	30143.720	5.5	74504.510	4.5
225.0932	26.01	-1.88	667.640	2.5	45079.910	2.5	225.3569	28.00	-1.68	204.786	3.0	44565.100	3.0
225.0962	24.01	-5.61	20512.620	2.5	64924.300	3.5	225.3596	27.00	-3.40	1406.840	2.5	45766.630	3.5
225.0990	25.02	-3.28	133276.400	4.5	177687.540	3.5	225.3620	27.02	-4.52	128017.700	3.5	172377.000	3.5
225.0996	22.01	-4.20	8710.470	1.5	53121.480	.5	225.3621	27.01	-4.65	11651.310	2.0	56010.600	2.0
225.0997	28.01	-1.19	72375.420	1.5	116786.420	.5	225.3621	15.01	-2.34	67805.000	2.0	132164.300	2.0
225.1010	25.01	-3.67	49820.160	2.0	94230.900	2.0	225.3680	28.01	-.38	23796.180	1.5	68154.310	1.5
225.1025	24.01	-3.17	30307.600	1.5	74718.050	1.5	225.3683	26.02	-2.51	138054.590	5.0	182412.650	4.0
225.1031	23.02	-1.94	109854.870	3.5	154265.200	3.5	225.3699	26.00	-3.21	8154.713	1.0	52512.460	1.0
225.1045	9.02	-4.99	415994.510	1.5	459804.550	1.5	225.3704	26.02	-2.21	97041.380	3.0	141399.040	2.0
225.1053	24.00	-5.58	7593.160	2.0	52003.060	1.0	225.3733	28.01	-.35	72375.420	1.5	116732.510	2.5
225.1104	26.02	-1.83	135316.420	5.0	179725.310	6.0	225.3848	28.01	.06	10663.890	1.5	55018.710	2.5
225.1113	27.01	-1.43	18031.500	2.0	62440.200	1.0	225.3869	12.01	-2.54	71490.190	2.5	115844.600	2.5
225.1117	23.01	-1.99	20522.140	1.0	64930.760	1.0	225.3869	12.01	-1.24	71490.190	2.5	115844.600	3.5
225.1154	26.02	-4.16	142047.000	4.0	186454.890	5.0	225.3890	23.02	-3.48	101785.810	1.5	146139.800	2.5
225.1160	14.02	-1.93	209599.700	4.0	254007.480	3.0	225.3913	12.01	-1.39	71491.060	1.5	115844.600	2.5
225.1170	50.00	-.34	8549.697	0.0	52971.042	0.0	225.3953	25.01	-2.42	41190.470	6.0	85543.230	5.0
225.1199	26.02	-3.47	137423.000	3.0	181830.020	3.0	225.4010	72.01	.07	3629.588	0.0	47994.963	0.0
225.1214	11.02	-3.38	418556.900	.5	462963.600	1.5	225.4022	24.01	-4.24	30391.940	6.5	74743.330	6.5
225.1229	26.00	-2.70	11976.239	4.0	56382.664	5.0	225.4037	24.02	-4.27	128849.400	4.0	173200.500	5.0
225.1232	29.01	-2.95	72724.000	2.0	117130.360	2.0	225.4047	25.03	-2.29	131462.500	5.0	175813.400	4.0
225.1239	29.01	-1.92	71919.930	3.0	116326.160	3.0	225.4055	25.01	-3.08	34761.810	3.0	79112.560	5.0
225.1252	24.01	-5.09	20518.330	3.5	64924.300	3.5	225.4075	26.01	-.95	39109.340	.5	83459.700	1.5
225.1267	26.02	-4.96	137423.000	3.0	181828.660	2.0	225.4102	26.01	-1.22	21581.640	4.5	65931.460	3.5
225.1329	24.01	-4.24	20519.850	4.5	64924.300	3.5	225.4124	27.01	.26	40694.900	4.0	85044.300	3.0
225.1343	25.01	-4.13	43536.900	4.0	87941.080	4.0	225.4205	28.01	-1.90	92325.850	3.5	136673.640	4.5
225.1419	26.02	-2.68	137423.000	3.0	181825.670	4.0	225.4259	20.02	-1.70	326186.320	3.0	370533.070	4.0
225.1433	24.02	.22	49626.800	2.0	94029.200	3.0	225.4266	30.02	-4.50	260584.100	1.0	304930.700	2.0
225.1435	18.01	-2.50	155708.020	.5	200110.380	.5	225.4282	18.01	-.77	160239.350	1.5	204585.640	2.5
225.1453	11.02	-1.28	367561.900	.5	411963.900	1.5	225.4292	26.02	-4.73	157684.300	2.0	202030.380	3.0
225.1487	28.00	-1.11	879.813	2.0	45281.152	3.0	225.4315	23.02	-3.80	42371.200	1.5	86716.840	1.5
225.1526	28.01	-4.52	56075.260	2.5	100475.820	3.5	225.4340	25.01	-3.73	37847.900	2.0	82193.040	2.0
225.1554	26.01	-1.73	384.770	3.5	44784.780	2.5	225.4345	23.01	-2.81	32040.760	2.0	76385.800	3.0
225.1620	27.01	-.02	41313.900	3.0	85712.600	2.0	225.4377	26.01	-8.01	27620.390	2.5	71964.810	2.5
225.1664	26.02	-2.52	135279.040	2.0	179676.890	2.0	225.4405	26.01	-3.12	862.630	1.5	45206.490	.5
225.1702	27.01	-4.95	19189.900	4.0	63587.000	3.0	225.4492	25.00	-3.61	23549.200	2.5	67891.360	3.5
225.1707	27.02	-.67	82920.700	3.5	127317.700	3.5	225.4505	25.01	-4.29	37851.150	3.0	82193.040	2.0
225.1710	28.01	-2.40	71770.830	2.5	116167.760	1.5	225.4521	26.02	-2.94	138103.120	4.0	182444.700	3.0
225.1727	27.01	-.45	41737.800	2.0	86134.400	1.0	225.4549	25.01	-3.06	49809.860	3.0	94230.900	2.0
225.1785	11.01	-2.06	308864.540	0.0	353260.000	1.0	225.4597	26.02	-3.93	135239.740	4.0	179579.380	5.0
225.1833	26.01	.66	38458.990	4.5	82853.500	5.5	225.4645	26.02	-4.12	135554.410	4.0	179893.560	5.0
225.1835	27.00	-1.98	0.000	4.5	44394.470	3.5	225.4658	25.01	-3.92	41204.340	5.0	85543.230	5.0
225.1842	29.01	-1.73	73353.120	2.0	117747.450	3.0	225.4703	28.02	-2.39	98238.200	4.0	142576.200	5.0
225.1875	26.00	-1.87	888.132	1.0	45281.816	2.0	225.4754	30.02	-3.39	260613.100	5.0	304950.100	5.0
225.1991	24.02	-.37	50408.200	5.0	94799.600	5.0	225.4785	56.01	-1.89	5674.824	0.0	50024.951	0.0
225.2009	26.02	-2.05	135239.740	4.0	179630.770	4.0	225.4800	28.00	.02	0.000	4.0	44336.100	4.0
225.2062	27.02	-3.62	128804.900	1.5	173194.900	2.5	225.4830	30.02	-2.73	260613.100	5.0	304948.600	4.0
225.2062	27.02	-3.62	128804.900	1.5	173194.900	2.5	225.4830	30.02	-4.41	260613.100	5.0	304948.600	5.0
225.2062	27.02	-2.96	128804.900	1.5	173194.900	2.5	225.4840	27.00	-2.47	8460.810	2.5	52796.130	2.5
225.2065	26.02	-2.58	114339.950	4.0	158729.890	3.0	225.4844	27.00	-1.16	4690.180	2.5	49025.420	1.5
225.2150	76.00	.89	8630.355	0.0	53032.371	0.0	225.4860	73.01	.76	3145.643	0.0	47494.294	0.0
225.2167	25.02	-.60	89898.080	.5	134286.000	.5	225.4881	26.01	-2.07	22939.350	2.5	67273.860	1.5
225.2168	10.01	-4.25	279137.620	3.5	323525.530	4.5	225.4885	25.00	-4.82	17451.520	2.5	61785.940	3.5
225.2202	23.01	-3.89	19161.270	0.0	63548.500	1.0	225.4953	26.01	-2.41	25981.650	3.5	70314.740	4.5
225.2234	24.02	-2.21	71166.100	2.0	115552.700	3.0	225.4966	29.01	-.42	73595.640	1.0	117928.480	1.0
225.2246	18.01	-1.06	150474.900	1.5	194861.270	2.5	225.5011	26.02	-4.70	142047.000	4.0	186378.940	4.0
225.2254	25.02	-2.82	132297.550	2.5	176683.760	2.5	225.5100	77.00	.40	2823.013	0.0	47166.945	0.0
225.2269	26.02	-1.80	70725.010	3.0	115110.920	4.0	225.5114	28.01	-2.87	52205.950	3.5	96535.870	3.5
225.2275	10.01	-2.63	279137.620	3.5	323523.410	2.5	225.5131	30.02	-4.54	260613.100	5.0	304942.700	4.0
225.2314	26.02	-4.11	144570.530	3.0	188955.560	3.0	225.5145	26.01	-1.44	18360.650	1.5	62689.960	2.5
225.2364	24.01	-1.21	32603.730	2.5	76987.780	2.5	225.5150	72.01	-.25	3629.588	0.0	47972.536	0.0
225.2371	22.01	-2.83	8744.270	2.5	53128.170	1.5	225.5159	20.02	-2.30	326186.320	3.0	370515.360	3.0
225.2440	20.02	-1.89	278621.010	1.0	323003.560	1.0	225.5168	23.01	-6.44	2968.220	4.0	47297.080	5.0
225.2445	26.02	-3.11	135279.040	2.0	179661.480	3.0	225.5174	18.01	-3.44	155351.030	1.5	199679.760	2.5
225.2452	23.01	-4.76	19166.190	1.0	63548.500	1.0	225.5181	27.02	-3.13	128804.900	1.5	173139.500</	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
225.5844	26.02	-1.82	138103.120	4.0	182418.700	4.0	225.8503	26.02	-2.37	135316.420	5.0	179579.830	5.0
225.5849	24.01	-2.69	30391.940	6.5	74707.420	5.5	225.8510	77.00	.17	9759.560	0.0	54036.539	0.0
225.5850	76.00	.59	2661.698	0.0	46990.887	0.0	225.8513	23.01	-3.22	11908.270	2.0	56171.490	1.0
225.5862	26.00	-2.73	7376.762	4.0	51691.980	3.0	225.8650	23.01	-2.41	20343.000	2.0	64603.530	3.0
225.5875	28.00	.20	0.000	4.0	44314.980	4.0	225.8705	25.00	-4.00	17451.520	2.5	61710.980	3.5
225.5901	26.02	-2.31	73849.100	1.0	118163.560	2.0	225.8707	28.01	-1.80	68965.650	1.5	113225.060	.5
225.5907	26.02	-1.92	135316.420	5.0	179630.770	4.0	225.8710	24.00	-3.76	0.000	3.0	44259.360	3.0
225.5911	28.01	-.08	56075.260	2.5	100389.520	2.5	225.8710	73.01	.65	0.000	0.0	44273.059	0.0
225.5939	23.01	-3.06	20617.050	2.0	64930.760	1.0	225.8815	23.01	-2.00	3162.800	5.0	47420.100	4.0
225.5985	26.01	-2.83	977.030	.5	45289.840	1.5	225.8818	25.01	-3.28	41190.470	6.0	85447.700	5.0
225.5990	24.01	-1.96	25035.640	.5	69348.360	1.5	225.8821	7.01	-3.96	170572.610	2.0	214829.790	1.0
225.6000	32.00	-.32	7017.204	0.0	51343.445	0.0	225.8830	25.01	-3.38	31661.720	3.0	75918.730	2.0
225.6017	24.01	-.03	30143.720	5.5	74455.900	4.5	225.8842	26.02	-3.40	138187.930	3.0	182444.700	3.0
225.6036	27.02	-3.72	83773.400	1.5	128085.200	2.5	225.8860	77.00	.55	6291.287	0.0	50561.406	0.0
225.6068	26.00	-2.74	7985.783	2.0	52296.960	2.0	225.8935	26.02	-1.01	166144.630	2.0	210399.570	3.0
225.6075	8.01	-3.87	231530.260	4.5	275841.300	4.5	225.9011	26.00	-4.32	7376.762	4.0	51630.230	5.0
225.6126	25.02	-1.43	90936.220	1.5	135246.270	2.5	225.9040	52.00	-.73	0.000	0.0	44266.591	0.0
225.6129	26.02	-4.96	140693.360	3.0	185003.350	2.0	225.9071	24.00	-2.88	7750.780	0.0	52063.060	1.0
225.6139	28.01	-.29	29593.460	.5	73903.250	.5	225.9118	26.02	-.79	166144.630	2.0	210396.000	2.0
225.6152	26.02	-3.59	138103.120	4.0	182412.650	4.0	225.9133	26.02	-2.50	93512.640	4.0	137763.700	5.0
225.6153	26.01	-3.35	42401.330	1.5	86710.840	1.5	225.9139	25.02	-1.30	89204.690	4.5	133455.640	5.5
225.6190	75.00	-.54	0.000	0.0	44322.508	0.0	225.9148	25.01	-3.63	44521.520	4.0	88772.300	5.0
225.6269	28.01	-3.53	70778.120	3.5	115085.360	3.5	225.9157	24.02	-1.58	115552.700	3.0	159803.300	4.0
225.6283	28.01	-.86	70635.460	2.5	114942.420	1.5	225.9237	26.02	-.83	166144.630	2.0	210393.670	1.0
225.6309	28.00	-2.03	2216.519	2.0	46522.965	2.0	225.9256	25.01	-3.53	37851.150	3.0	82099.820	4.0
225.6343	26.02	-2.52	138103.120	4.0	182408.910	3.0	225.9269	24.02	-3.94	71321.800	3.0	115570.200	4.0
225.6370	24.01	-3.14	25043.100	1.5	69348.360	1.5	225.9283	26.00	-1.58	415.932	3.0	44664.061	2.0
225.6395	10.01	-1.83	279218.660	2.5	323523.410	2.5	225.9284	25.02	-3.98	132937.060	.5	177185.180	.5
225.6429	20.02	-1.52	281882.240	2.0	326186.320	3.0	225.9297	28.01	.22	56371.410	3.5	100619.260	4.5
225.6440	26.01	-1.50	20805.830	4.5	65109.710	3.5	225.9312	23.01	-6.42	2808.760	3.0	47056.320	4.0
225.6472	28.01	-1.76	70778.120	3.5	115081.360	4.5	225.9410	26.02	-2.66	84671.870	3.0	128917.510	2.0
225.6480	24.02	-2.01	110154.000	4.0	154457.100	4.0	225.9425	25.00	-2.71	23719.520	1.5	67964.870	2.5
225.6510	73.01	1.35	9678.902	0.0	53995.125	0.0	225.9449	25.01	-3.08	43696.190	3.0	87941.080	4.0
225.6543	18.01	-.72	170530.310	3.5	214832.170	3.5	225.9511	26.00	-.85	0.000	4.0	44243.668	5.0
225.6565	26.01	-3.51	42114.790	4.5	86416.220	3.5	225.9527	25.01	-1.00	41204.340	5.0	85447.700	5.0
225.6570	24.01	-3.75	25047.040	2.5	69348.360	1.5	225.9530	44.00	-.07	0.000	0.0	44256.991	0.0
225.6581	27.00	-.61	4142.660	3.5	48443.760	2.5	225.9533	23.01	-3.43	20343.000	2.0	64586.230	2.0
225.6590	26.01	-2.76	21711.890	3.5	66012.830	4.5	225.9538	23.01	-4.30	2808.760	3.0	47051.890	3.0
225.6690	24.01	-3.54	30156.940	3.5	74455.900	4.5	225.9563	28.00	-1.02	879.813	2.0	45122.460	1.0
225.6709	28.01	-1.67	54262.630	3.5	98561.220	2.5	225.9568	26.01	-1.85	23031.300	1.5	67273.860	1.5
225.6722	25.02	-4.59	135041.250	1.5	179339.590	2.5	225.9577	26.00	-3.63	7376.762	4.0	51619.140	3.0
225.6739	27.01	.62	27106.000	6.0	71404.000	6.0	225.9581	14.00	-2.19	15394.370	0.0	59636.667	1.0
225.6754	26.00	-2.19	12560.933	3.0	56858.650	2.0	225.9596	10.04	-.18	596626.000	1.0	640868.000	2.0
225.6760	57.01	.25	1371.178	0.0	45682.492	0.0	225.9624	26.01	-.84	33501.320	3.5	77742.780	2.5
225.6815	10.01	-1.31	279218.660	2.5	323515.170	3.5	225.9631	25.02	-2.77	86654.079	4.5	130895.390	4.5
225.6851	27.02	-4.37	126239.400	4.5	170535.200	4.5	225.9643	26.00	-2.98	7728.058	3.0	51969.140	3.0
225.6851	27.02	-4.37	126239.400	4.5	170535.200	4.5	225.9658	26.02	-1.73	134937.840	2.0	179178.620	3.0
225.6862	24.02	-3.91	109434.200	2.0	153729.800	1.0	225.9728	28.01	-.60	70635.460	2.5	114874.880	2.5
225.6864	24.01	-4.71	33418.110	2.5	77713.660	1.5	225.9756	8.01	-1.59	214169.740	.5	258408.600	.5
225.6868	27.00	-3.12	816.000	3.5	45111.480	4.5	225.9774	21.01	-4.08	32349.980	3.0	76588.480	2.0
225.6882	29.01	-3.45	69704.880	4.0	114000.000	3.0	225.9787	25.02	-1.45	94397.200	3.5	138635.460	2.5
225.6886	26.01	-.69	39013.280	1.5	83308.400	2.5	225.9834	26.02	-2.21	114325.350	5.0	158562.700	4.0
225.6900	10.01	-2.89	279218.660	2.5	323513.500	3.5	225.9908	28.01	-2.88	53037.930	2.5	97273.830	2.5
225.6988	23.01	-2.48	2808.760	3.0	47101.880	2.0	225.9916	26.02	-2.82	84369.920	2.0	128605.650	1.0
225.7005	26.02	-1.94	138187.930	3.0	182480.720	2.0	225.9921	28.01	-.91	70706.770	1.5	114942.420	1.5
225.7025	30.02	-2.94	238336.200	2.0	282628.600	2.0	226.0010	27.01	.54	27469.200	5.0	71703.100	5.0
225.7028	25.01	-2.22	49889.860	3.0	94182.200	3.0	226.0023	22.00	-4.09	0.000	2.0	44233.650	3.0
225.7055	27.02	-2.69	128085.200	2.5	172377.000	3.5	226.0051	24.02	-4.45	115570.200	4.0	159803.300	4.0
225.7075	26.00	-5.14	7376.762	4.0	51668.175	4.0	226.0056	22.01	-3.62	9363.710	.5	53596.700	1.5
225.7371	27.02	-1.91	83799.600	2.5	128085.200	2.5	226.0081	26.01	-1.65	0.000	4.5	44232.510	4.5
225.7372	28.01	-2.64	57080.550	3.5	101366.140	2.5	226.0163	24.02	-2.06	71321.800	3.0	115552.700	3.0
225.7376	24.02	-.23	50089.200	4.0	94374.700	4.0	226.0170	26.02	-3.65	138187.930	3.0	182418.700	4.0
225.7378	24.01	-4.38	30219.040	4.5	74504.510	4.5	226.0222	7.01	-4.96	166521.690	1.0	210751.430	1.0
225.7380	26.02	-3.02	137544.600	2.0	181830.020	3.0	226.0237	26.01	-2.28	977.030	.5	45206.490	.5
225.7408	26.02	-1.52	76956.790	3.0	121241.670	4.0	226.0316	15.01	-3.70	87125.400	2.0	131353.300	2.0
225.7434	24.00	-5.83	8307.570	4.0	52591.940	5.0	226.0337	26.01	-.92	49101.090	.5	93328.600	1.5
225.7450	26.02	-3.75	137544.600	2.0	181828.660	2.0	226.0341	26.00	-3.94	7985.783	2.0	52213.207	3.0
225.7540	24.02	.55	66222.700	5.0	110505.000	6.0	226.0386	28.01	-3.55	75917.630	3.5	120144.170	2.5
225.7540	27.02	-3.51	127458.100	1.5	171740.400	1.5	226.0404	25.01	-3.49	44899.820	3.0	89126.000	3.0
225.7540	27.02	-3.51	127458.100	1.5	171740.400	1.5	226.0490	24.01	-3.36	32854.460	4.5	77078.960	5.5
225.7555	23.01	-2.52	20522.140	1.0	64804.130	2.0	226.0518	25.02	-1.43	89052.440	3.5	133276.400	4.5
225.7575	24.02	-4.97	113355.700	2.0	157637.300	3.0	226.0539	26.02	-1.93	70725.010	3.0	114948.550	3.0
225.7590	27.00	-2.10	1406.840	2.5	45688.150	2.5	226.0578	25.02	-3.32	135116.800	1.5	179339.590	2.5
225.7617	26.02	-4.35	137527.920	4.0	181808.700	5.0	226.0580	26.02	-3.51	114339.950	4.0	158562.700	4.0
225.7625	24.01	-2.67	30143.720	5.5	74424.350	6.5	226.0597	23.01	-4.36	17910.980	4.0	62133.390	3.0
225.7637	8.02	-3.15	370900.600	2.0	415181.000	3.0	226.0599	26.00	-1.01	12560.933	3.0	56783.306	3.0
225.7698	24.01	-3.69	30156.940	3.5	74436.140	2.5	226.0623	7.01	-3.43	170607.890	1.0	214829.790	1.0
225.7698	26.01	-4.28	20830.520	2.5	65109.710	3.5	226.0640	28.01	-.67	56371.410	3.5	100592.980	3.5
225.7757	24.01	.06	3014										

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
226.1616	23.02	-3.52	97512.000	1.5	141714.500	2.5	226.4101	10.02	-1.15	391414.020	2.0	435566.000	3.0
226.1620	73.01	.46	967.890	0.0	45183.983	0.0	226.4118	18.01	-2.62	161089.310	.5	205242.970	.5
226.1621	26.02	-2.70	134976.220	3.0	179178.620	3.0	226.4148	25.02	-2.66	86578.240	3.5	130731.310	3.5
226.1630	22.01	-1.43	15265.600	3.5	59467.810	3.5	226.4195	26.02	-2.24	93392.450	3.0	137544.600	2.0
226.1634	25.01	-1.86	34910.430	4.0	79112.560	5.0	226.4209	26.02	-1.56	166252.740	3.0	210404.610	2.0
226.1646	24.01	-1.84	47354.630	2.5	91556.540	1.5	226.4264	8.02	-3.57	370524.200	2.0	414675.000	4.0
226.1661	24.00	-2.65	7810.820	1.0	52012.440	2.0	226.4317	23.01	-7.85	2604.820	1.0	46754.590	1.0
226.1662	24.02	-1.81	70980.200	1.0	115181.800	2.0	226.4321	26.01	-3.22	21430.390	5.5	65580.090	5.5
226.1667	24.02	-1.26	49827.700	3.0	94029.200	3.0	226.4362	27.02	-2.55	127317.700	3.5	171466.600	2.5
226.1684	28.01	-.99	70635.460	2.5	114836.630	3.5	226.4362	27.02	-2.55	127317.700	3.5	171466.600	2.5
226.1693	14.00	-3.31	6298.850	2.0	50499.838	2.0	226.4382	23.01	-3.79	11514.760	1.0	55663.270	1.0
226.1695	22.01	-2.32	9395.760	1.5	53596.700	1.5	226.4386	26.00	-2.60	6928.266	5.0	51076.680	4.0
226.1805	25.01	-2.68	48317.850	4.0	92516.650	4.0	226.4390	75.00	-1.20	0.000	0.0	44162.004	0.0
226.1815	25.00	-4.91	17282.000	3.5	61480.600	3.5	226.4399	26.02	-4.05	93412.930	2.0	137561.100	1.0
226.1819	10.01	-2.43	279324.890	1.5	323523.410	2.5	226.4405	23.02	-4.13	102075.000	2.5	146223.050	3.5
226.1822	28.01	-3.01	53601.190	1.5	97799.660	1.5	226.4410	27.00	-3.23	1809.330	1.5	45957.290	.5
226.1829	26.01	-1.80	42401.330	1.5	86599.660	2.5	226.4461	28.01	.07	10115.660	2.5	54262.630	3.5
226.1910	25.01	-4.52	44899.820	3.0	89096.560	4.0	226.4468	26.02	-.67	166252.740	3.0	210399.570	3.0
226.1917	15.01	-2.53	87967.700	3.0	132164.300	2.0	226.4495	27.02	-1.88	83938.900	3.5	128085.200	2.5
226.1943	27.02	-2.19	128937.400	.5	173133.500	1.5	226.4544	29.01	-2.59	71493.680	2.0	115639.020	2.0
226.1997	26.00	-5.42	7985.783	2.0	52180.820	1.0	226.4585	26.01	-.32	26170.190	5.5	70314.740	4.5
226.2034	18.01	-2.98	161048.640	1.5	205242.970	.5	226.4600	76.00	.58	4113.534	0.0	48271.443	0.0
226.2057	26.02	-.51	166421.330	4.0	210615.210	3.0	226.4610	77.00	0.00	2823.013	0.0	46980.727	0.0
226.2061	24.02	-1.77	115181.800	2.0	159375.600	3.0	226.4651	26.02	-1.09	166252.740	3.0	210396.000	2.0
226.2063	26.02	-3.03	135554.410	4.0	179748.170	5.0	226.4652	26.02	-2.35	135582.080	6.0	179725.310	6.0
226.2065	28.01	-1.10	70748.700	.5	114942.420	1.5	226.4653	28.01	-2.67	55299.650	4.5	99442.860	4.5
226.2076	27.00	-3.72	1809.330	1.5	46002.830	2.5	226.4664	26.02	-4.87	142855.590	4.0	186998.600	4.0
226.2105	23.01	-3.31	2687.010	2.0	46879.940	2.0	226.4671	24.01	-3.35	32844.920	1.5	76987.780	2.5
226.2129	23.02	-3.60	101785.810	1.5	145978.270	2.5	226.4680	25.01	-2.55	37851.150	3.0	81993.850	4.0
226.2141	24.00	-3.33	7810.820	1.0	52003.060	1.0	226.4703	26.00	-3.41	8154.713	1.0	52296.960	2.0
226.2211	10.02	-.11	391429.940	3.0	435620.800	4.0	226.4741	28.01	-.25	55417.830	3.5	99559.330	2.5
226.2240	26.01	-2.07	22810.330	3.5	67000.630	2.5	226.4792	26.00	-5.01	6928.266	5.0	51068.770	5.0
226.2300	73.01	1.29	2581.041	0.0	46783.843	0.0	226.4854	23.03	-1.60	220343.500	1.0	264482.800	2.0
226.2317	24.00	-2.89	7810.820	1.0	51999.620	0.0	226.4861	26.02	-2.88	93388.750	4.0	137527.920	4.0
226.2386	25.02	-2.84	135041.250	1.5	179228.690	1.5	226.4880	24.02	-.44	49626.800	2.0	93765.600	2.0
226.2399	27.02	-3.96	126892.100	3.5	171079.300	3.5	226.4885	27.00	-.99	4690.180	2.5	48828.870	2.5
226.2399	27.02	-3.96	126892.100	3.5	171079.300	3.5	226.4917	10.02	-.88	391429.940	3.0	435568.000	3.0
226.2405	23.01	-1.43	20617.050	2.0	64804.130	2.0	226.4921	27.02	-2.84	82363.300	4.5	126501.300	5.5
226.2413	24.00	-4.11	0.000	3.0	44186.920	2.0	226.4963	18.01	-1.54	170530.310	3.5	214667.480	2.5
226.2460	27.02	-2.80	82363.300	4.5	126549.300	3.5	226.4982	30.02	-3.44	260805.900	2.0	304942.700	3.0
226.2466	28.01	-.29	71770.830	2.5	115956.710	2.5	226.5020	48.01	1.72	0.000	0.0	44149.721	0.0
226.2510	51.00	.31	16292.819	0.0	60491.519	0.0	226.5051	26.02	-1.83	93392.450	3.0	137527.920	4.0
226.2535	8.01	-3.53	211712.660	2.5	255897.200	2.5	226.5055	26.00	-2.27	415.932	3.0	44551.325	3.0
226.2573	24.01	-.98	47372.750	1.5	91556.540	1.5	226.5067	23.01	-5.08	2604.820	1.0	46739.980	2.0
226.2584	25.01	-4.08	48333.060	5.0	92516.650	4.0	226.5091	23.02	-2.58	103034.650	4.5	147169.340	3.5
226.2596	27.00	-1.44	0.000	4.5	44183.340	4.5	226.5106	24.02	-3.71	115668.900	5.0	159803.300	4.0
226.2687	26.01	-1.90	862.630	1.5	45044.210	1.5	226.5112	23.01	-6.26	3162.800	5.0	47297.080	5.0
226.2709	23.01	-2.71	20622.990	3.0	64804.130	2.0	226.5112	22.01	-.71	25193.040	2.5	69327.320	1.5
226.2723	18.01	-1.12	174820.930	.5	219001.800	1.5	226.5193	24.01	-3.24	32855.090	2.5	76987.780	2.5
226.2738	25.02	-1.56	90936.220	1.5	135116.800	1.5	226.5193	19.02	-.94	245382.300	.5	289515.000	1.5
226.2780	25.02	-1.56	88880.080	2.5	133059.840	3.5	226.5220	18.01	-1.51	161089.310	.5	205221.470	1.5
226.2810	26.01	-2.56	42237.050	3.5	86416.220	3.5	226.5264	28.00	-3.57	204.786	3.0	44336.100	4.0
226.2813	8.01	-1.91	214229.480	1.5	258408.600	.5	226.5326	27.02	-1.72	82920.700	3.5	127050.800	4.5
226.2841	25.02	-2.25	134638.390	1.5	178816.960	2.5	226.5341	29.01	-.72	73101.870	1.0	117231.690	1.0
226.2868	26.02	-2.39	87901.870	3.0	132079.910	3.0	226.5346	28.01	-1.45	24835.930	.5	68965.650	1.5
226.2876	18.01	-4.91	160239.350	1.5	204417.230	1.5	226.5349	26.02	-4.66	143883.740	5.0	188013.400	5.0
226.2880	25.01	-4.88	62572.200	2.0	106750.000	2.0	226.5356	26.01	-3.71	2837.940	2.5	46967.470	2.5
226.2888	26.02	-3.53	145618.390	2.0	189796.030	1.0	226.5469	28.01	-2.82	75917.630	3.5	120044.950	4.5
226.2898	28.01	-1.58	24788.200	1.5	68965.650	1.5	226.5478	23.01	-3.34	8640.210	2.0	52767.360	3.0
226.2911	26.01	-1.33	48039.230	2.5	92216.420	1.5	226.5539	26.01	-2.16	21430.390	5.5	65556.340	4.5
226.2924	26.02	-4.98	142535.070	2.0	186712.020	1.0	226.5547	27.01	-.34	42008.600	1.0	86134.400	1.0
226.2939	24.01	-2.49	30307.600	1.5	74484.250	2.5	226.5548	28.01	-2.86	77736.790	4.5	121862.570	3.5
226.2947	23.02	-4.84	101645.610	.5	145822.110	1.5	226.5552	26.02	-3.34	90423.680	2.0	134549.380	1.0
226.3001	29.01	-2.74	95565.650	4.0	139741.100	3.0	226.5556	25.01	-4.75	39808.140	3.0	83933.770	3.0
226.3049	27.00	-1.09	4142.660	3.5	48317.170	3.5	226.5558	24.01	-4.15	30298.770	5.5	74424.350	6.5
226.3068	26.02	-4.88	157982.000	3.0	202156.130	2.0	226.5572	26.02	-4.66	90423.680	2.0	134549.380	3.0
226.3069	18.01	-3.01	155351.030	1.5	199525.150	1.5	226.5598	30.02	-3.92	260805.900	2.0	304942.700	2.0
226.3121	27.01	-1.37	24886.500	2.0	69059.590	3.0	226.5613	26.00	-4.18	7985.783	2.0	52110.300	1.0
226.3135	18.01	-2.74	161048.640	1.5	205221.470	1.5	226.5647	28.01	-3.99	77332.470	2.5	121456.320	1.5
226.3142	28.01	-2.02	93390.060	2.5	137562.740	3.5	226.5691	24.01	-3.66	30298.770	5.5	74421.760	5.5
226.3166	10.01	-4.07	280268.960	2.5	324441.190	2.5	226.5691	10.04	.09	597523.000	2.0	641646.000	3.0
226.3172	24.02	-2.66	109721.400	3.0	153893.500	2.0	226.5700	7.01	-4.35	166582.450	2.0	210705.260	2.0
226.3172	10.01	-2.77	280268.960	2.5	324441.190	3.5	226.5752	27.01	-1.73	4028.900	4.0	48150.700	3.0
226.3192	29.01	-.48	71493.680	2.0	115665.400	1.0	226.5762	26.00	-4.92	11976.239	4.0	56097.850	3.0
226.3194	26.02	-3.90	158257.370	1.0	204249.040	1.0	226.5768	26.02	-3.64	88663.870	4.0	132785.360	4.0
226.3222	24.01	-3.81	19631.280	1.5	63802.410	.5	226.5828	24.01	-3.83	30864.610	2.5	74984.930	1.5
226.3231	28.01	-2.31	68735.980	2.5	112906.930	1.5	226.5936	20.02	-3.48	326186.320	3.0	370304.540	2.0
226.3232	26.01	-.45	26352.800	4.5	70523.730	3.5	226.5962	26.					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
226.6897	26.00	-2.95	7728.058	3.0	51827.590	2.0	226.9844	20.02	-1.18	278621.010	1.0	372663.280	0.0
226.6901	28.01	-1.20	71770.830	2.5	115870.280	2.5	226.9848	24.01	-3.51	32836.840	3.5	76879.030	3.5
226.6941	18.01	-3.54	147875.860	2.5	191974.530	1.5	226.9848	25.01	-4.82	29869.110	2.0	73911.310	1.0
226.6978	10.02	-1.72	391429.940	3.0	435527.900	2.0	226.9915	28.01	-1.59	55299.650	4.5	99340.550	3.5
226.6991	26.00	-5.26	7728.058	3.0	51825.758	3.0	227.0117	6.01	-1.53	181711.030	1.5	225748.000	.5
226.7007	26.02	-2.07	135096.840	3.0	179194.220	4.0	227.0124	22.01	-2.47	9518.050	2.5	53554.900	2.5
226.7039	28.01	-.82	70778.120	3.5	114874.880	2.5	227.0152	23.02	-4.55	101785.810	1.5	145822.110	1.5
226.7085	26.00	-4.02	415.932	3.0	44511.795	2.0	227.0170	76.00	.627	2661.698	0.0	46711.263	0.0
226.7104	18.01	-3.47	155351.030	1.5	199446.540	.5	227.0180	6.01	-1.13	181736.050	2.5	225771.800	1.5
226.7110	18.01	-1.78	155043.070	2.5	199138.450	1.5	227.0209	26.01	-2.67	22767.190	4.5	66672.390	3.5
226.7112	27.00	-2.44	1809.330	1.5	45904.680	1.5	227.0212	28.01	.21	9330.040	3.5	53365.170	4.5
226.7134	26.00	-3.46	6928.266	5.0	51023.190	6.0	227.0240	74.01	.21	1451.835	0.0	45500.041	0.0
226.7190	50.00	.06	8549.697	0.0	52657.160	0.0	227.0255	28.01	-4.71	93528.440	3.5	137562.740	3.5
226.7234	28.01	-.32	72375.420	1.5	116468.400	1.5	227.0258	26.02	-2.31	93388.750	4.0	137423.000	3.0
226.7289	25.02	-3.60	88880.080	2.5	132971.990	3.5	227.0260	25.01	-2.77	38901.800	4.0	82936.010	3.0
226.7351	26.02	-3.04	88694.670	5.0	132785.360	4.0	227.0264	25.02	-1.64	89052.440	3.5	133086.570	4.5
226.7445	26.02	-.97	92523.910	5.0	136612.780	4.0	227.0267	26.00	-8.91	7728.058	3.0	51762.120	2.0
226.7466	26.00	-2.70	6928.266	5.0	51016.720	5.0	227.0323	26.01	-5.88	16369.390	3.5	60402.380	2.5
226.7470	48.00	-.77	30488.543	0.0	74590.560	0.0	227.0352	26.00	-4.28	7376.762	4.0	51409.180	4.0
226.7485	23.01	-6.52	2968.220	4.0	47056.320	4.0	227.0353	24.01	-3.63	30391.940	6.5	74424.350	6.5
226.7490	24.02	-2.24	114354.900	4.0	158442.900	4.0	227.0353	26.01	-1.59	50157.610	4.5	94190.020	5.5
226.7556	28.00	-.78	1332.153	3.0	45418.858	2.0	227.0383	26.00	-3.16	12560.933	3.0	56592.760	4.0
226.7583	26.01	-1.72	667.640	2.5	44753.820	3.5	227.0385	9.02	-4.11	351236.350	.5	395268.130	1.5
226.7613	23.01	-3.14	2604.820	1.0	46690.430	1.0	227.0449	26.02	-3.14	93392.450	3.0	137423.000	3.0
226.7632	28.01	-2.75	75917.630	3.5	120002.860	3.5	227.0486	24.01	-4.19	30391.940	6.5	74421.760	5.5
226.7646	24.00	-2.65	7927.470	2.0	52012.440	2.0	227.0524	25.00	-4.78	17451.520	2.5	61480.600	3.5
226.7709	23.02	-.75	110181.470	2.5	154265.200	3.5	227.0651	7.01	-3.89	166678.640	3.0	210705.260	2.0
226.7712	23.01	-3.75	2968.220	4.0	47051.890	3.0	227.0674	26.01	-2.53	20805.830	4.5	64832.000	4.5
226.7803	27.02	-2.68	85474.100	6.5	129556.000	5.5	227.0678	26.00	-3.00	8154.713	1.0	52180.820	1.0
226.7810	26.02	-2.97	135096.840	3.0	179178.620	3.0	227.0733	28.01	-1.18	55417.830	3.5	99442.860	4.5
226.7811	6.01	-1.51	181736.050	2.5	225817.800	2.5	227.0757	24.01	-3.49	32854.460	4.5	76879.030	3.5
226.7831	26.01	-1.69	42334.860	2.5	86416.220	3.5	227.0785	25.00	-4.88	18402.460	2.5	62426.480	3.5
226.7840	27.02	-3.83	126998.100	4.5	171079.300	3.5	227.0789	24.01	-3.61	32855.090	2.5	76879.030	3.5
226.7840	27.02	-3.83	126998.100	4.5	171079.300	3.5	227.0855	26.02	-3.27	135735.310	5.0	179757.980	4.0
226.7865	27.02	-1.53	86327.100	3.5	130407.800	2.5	227.0863	26.00	-.74	0.000	4.0	44022.518	0.0
226.7909	22.00	-2.59	0.000	2.0	44079.840	2.0	227.0884	23.02	-2.50	102961.280	3.5	146983.380	2.5
226.7958	11.02	-.30	399182.700	1.5	443261.600	.5	227.0887	28.01	-2.31	55018.710	2.5	99040.750	1.5
226.7963	27.02	-.73	83938.900	3.5	128017.700	3.5	227.0919	25.01	-3.81	43696.190	3.0	87717.620	3.0
226.7971	22.01	-3.67	9518.050	2.5	53596.700	1.5	227.1036	23.02	-4.44	97512.000	1.5	141531.170	1.5
226.8035	27.02	-4.96	82920.700	3.5	126998.100	4.5	227.1090	28.01	-1.09	56371.410	3.5	100389.520	2.5
226.8043	25.02	-3.93	86654.070	4.5	130731.310	3.5	227.1113	25.02	-.67	88880.080	2.5	132897.740	2.5
226.8089	26.02	-2.81	135554.410	4.0	179630.770	4.0	227.1215	24.02	-1.40	71166.100	2.0	115181.800	2.0
226.8128	24.00	-2.68	7927.470	2.0	52003.060	1.0	227.1215	30.02	-3.84	216007.400	5.0	260623.100	4.0
226.8132	26.01	-1.46	18886.750	.5	62962.260	1.5	227.1236	26.02	-4.05	93512.640	4.0	137527.920	4.0
226.8152	6.01	-2.23	181696.660	.5	225771.800	1.5	227.1256	28.00	-2.42	3409.925	2.0	47424.830	1.0
226.8159	27.02	-2.43	85517.300	5.5	129592.300	4.5	227.1361	26.02	-1.96	135735.310	5.0	179748.170	5.0
226.8176	27.00	-1.03	4142.660	3.5	48217.320	3.5	227.1370	74.00	-.89	3306.958	0.0	47333.251	0.0
226.8280	76.00	-.15	2661.698	0.0	46747.966	0.0	227.1419	26.02	-4.76	158417.310	2.0	202429.040	1.0
226.8293	23.03	.09	100200.700	2.0	144273.100	2.0	227.1422	25.01	-3.62	37851.150	3.0	81862.840	4.0
226.8328	25.02	-.51	89204.690	4.5	133276.400	4.5	227.1444	24.01	-3.29	30307.600	1.5	74318.860	2.5
226.8329	24.01	-.81	47354.630	2.5	91426.310	2.5	227.1505	26.02	-4.85	93412.930	2.0	137423.000	3.0
226.8349	30.02	-3.74	260878.800	3.0	304950.100	4.0	227.1542	26.01	-1.98	42114.790	4.5	86124.140	4.5
226.8355	23.01	-2.91	2808.760	3.0	46879.940	2.0	227.1566	26.02	-4.10	137763.700	5.0	181772.590	6.0
226.8540	23.01	-7.12	2687.010	2.0	46754.590	1.0	227.1576	26.02	-2.97	135739.470	6.0	179748.170	5.0
226.8554	25.01	-2.91	39808.140	3.0	83875.460	4.0	227.1586	27.02	-3.28	127458.100	1.5	171466.600	2.5
226.8561	26.01	-3.17	977.030	.5	45044.210	1.5	227.1586	27.02	-3.28	127458.100	1.5	171466.600	2.5
226.8598	28.01	-3.25	56424.490	1.5	100490.950	1.5	227.1607	25.01	-4.58	43850.420	2.0	87858.510	2.0
226.8620	26.02	-3.85	142312.900	3.0	186378.940	4.0	227.1643	25.02	-.63	89052.440	3.5	133059.840	3.5
226.8652	26.02	-2.88	90483.590	3.0	134549.000	3.0	227.1668	23.01	-3.17	20280.190	5.0	64287.100	5.0
226.8653	26.02	-2.93	114351.920	3.0	158417.310	2.0	227.1672	22.01	-4.51	907.960	1.5	44914.800	1.5
226.8684	23.02	-2.89	102075.000	2.5	146139.800	2.5	227.1715	29.02	-2.73	80551.500	2.5	124557.500	3.5
226.8720	23.01	-4.67	20522.140	1.0	64586.230	2.0	227.1731	30.02	-2.12	216607.400	5.0	260613.100	5.0
226.8721	28.01	-2.49	57080.550	3.5	101144.630	3.5	227.1781	26.00	-3.49	7376.762	4.0	51381.480	4.0
226.8730	30.02	-3.08	260878.800	3.0	304942.700	4.0	227.1839	26.01	-2.28	20830.520	2.5	64834.120	1.5
226.8749	27.00	-1.01	4690.180	2.5	48753.720	1.5	227.1843	28.01	-.70	56075.260	2.5	100078.780	1.5
226.8750	22.00	-2.73	170.132	3.0	44233.650	3.0	227.1848	23.01	-2.83	2687.010	2.0	46690.430	1.0
226.8822	26.01	-1.77	384.770	3.5	44446.890	3.5	227.1850	73.01	1.12	2581.041	0.0	46598.032	0.0
226.8829	26.02	-4.59	137763.700	5.0	181825.670	4.0	227.1953	28.00	-.97	204.786	3.0	44206.185	3.0
226.8865	26.01	-1.99	22939.350	2.5	67000.630	2.5	227.1956	25.01	-3.41	37811.570	1.0	81812.900	2.0
226.8879	10.03	-3.67	488917.000	1.5	532978.000	1.5	227.1984	9.03	-.46	416639.800	1.0	460640.600	2.0
226.8891	6.01	-1.43	181711.030	1.5	225771.800	1.5	227.2070	26.00	-.92	415.932	3.0	4415.057	4.0
226.8896	26.02	-3.91	145618.390	2.0	189679.070	3.0	227.2090	44.00	.33	0.000	0.0	44012.341	0.0
226.8900	77.00	.69	10485.478	0.0	54559.699	0.0	227.2105	26.01	-2.89	21581.640	4.5	65580.090	5.5
226.8910	17.02	-.56	201332.000	1.5	245392.400	1.5	227.2139	27.02	-2.60	128804.900	1.5	172802.700	2.5
226.8910	50.00	.49	3387.616	0.0	47461.643	0.0	227.2141	26.02	-2.72	135582.080	6.0	179579.830	5.0
226.8940	23.01	-1.81	8640.210	2.0	52700.030	2.0	227.2173	26.00	-5.12	7376.762	4.0	51373.894	5.0
226.8998	27.02	-2.95	128524.900	2.5	172583.600	3.5	227.2243	25.02	-2.52	91946.300	3.5	135944.080	4.5
226.8998	27.02	-2.95	128524.900	2.5	172583.600	3.5	227.2247	28.01	-3.55	75917.630	3.5	119913.330	4.5
226.													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
227.2885	26.00	-3.84	7985.783	2.0	51969.140	3.0	227.5496	24.02	.45	71736.000	5.0	115668.900	5.0
227.2889	26.02	-3.78	166421.330	4.0	210404.610	4.0	227.5501	25.01	-3.48	37847.900	2.0	81780.700	3.0
227.2948	23.02	-4.16	44345.820	3.5	88327.960	3.5	227.5558	24.02	-2.52	110154.000	4.0	154085.700	3.0
227.2975	23.01	-3.20	2604.820	1.0	46586.430	0.0	227.5578	24.02	-4.45	66222.700	5.0	110154.000	4.0
227.2992	26.02	-3.80	69695.730	4.0	113677.010	5.0	227.5583	23.01	-3.64	2808.760	3.0	46739.980	2.0
227.3030	23.01	-1.55	20622.990	3.0	64603.530	3.0	227.5594	22.01	-4.23	983.800	2.5	44914.800	1.5
227.3044	26.00	-5.03	7728.058	3.0	51708.330	2.0	227.5595	26.00	-1.21	11976.239	4.0	55907.220	5.0
227.3100	28.02	-3.74	78303.100	2.0	122282.300	2.0	227.5599	12.03	-3.54	553659.000	1.5	597589.900	.5
227.3102	21.01	.33	11736.350	0.0	55715.520	1.0	227.5618	26.01	-1.83	50142.930	2.5	94073.460	3.5
227.3107	28.01	-4.58	73893.730	1.5	117872.780	2.5	227.5619	24.01	-4.30	20518.330	3.5	64448.840	2.5
227.3149	26.02	-1.52	166421.330	4.0	210399.570	3.0	227.5669	25.01	-2.82	37851.150	3.0	81780.700	3.0
227.3157	27.02	-4.70	127050.800	4.5	171028.900	5.5	227.5681	26.00	-2.45	11976.239	4.0	55905.560	4.0
227.3280	22.00	-1.55	0.000	2.0	43975.710	1.0	227.5684	28.01	-3.38	25036.380	2.5	68965.650	1.5
227.3317	24.02	.54	71868.500	6.0	115843.500	6.0	227.5700	25.01	-3.98	38901.800	4.0	82830.750	4.0
227.3327	27.01	-2.23	41737.800	2.0	85712.600	2.0	227.5755	26.00	-3.75	7376.762	4.0	51304.650	4.0
227.3332	26.01	-2.21	21581.640	4.5	65556.340	4.5	227.5885	23.01	-2.23	8841.970	3.0	52767.360	3.0
227.3384	27.02	-4.97	126381.800	1.5	170355.500	2.5	227.5885	27.00	-1.23	4690.180	2.5	48615.560	2.5
227.3408	26.02	-1.92	145038.610	3.0	189011.840	4.0	227.5894	24.02	-3.95	135705.570	3.0	179630.770	4.0
227.3416	11.02	-1.15	418418.100	1.5	462391.200	.5	227.5910	27.02	-2.57	128017.700	3.5	171942.600	4.5
227.3426	12.02	-1.72	431530.000	1.0	475502.900	1.0	227.5963	23.01	-1.57	20363.220	6.0	64287.100	5.0
227.3459	28.01	-3.75	51045.460	4.5	95017.710	4.5	227.6023	28.01	-1.02	55417.830	3.5	99340.550	3.5
227.3503	27.02	-1.76	82920.700	3.5	126892.100	3.5	227.6026	26.00	-1.51	0.000	4.0	43922.652	3.0
227.3507	26.02	-4.71	135705.570	3.0	179676.890	2.0	227.6053	26.01	-3.92	862.630	1.5	44784.780	2.5
227.3610	26.01	-2.74	23031.300	1.5	67000.630	2.5	227.6069	26.02	-3.99	139509.440	5.0	183431.280	5.0
227.3618	25.02	-3.62	89307.220	5.5	133276.400	4.5	227.6088	25.02	-2.40	91948.300	3.5	135869.760	3.5
227.3618	23.01	-1.43	20617.050	2.0	64586.230	2.0	227.6104	23.01	-3.72	32299.240	1.0	76220.400	2.0
227.3624	24.00	-2.79	8095.210	3.0	52064.270	4.0	227.6166	29.01	-2.89	72724.000	2.0	116643.960	3.0
227.3653	9.03	-.54	416417.300	0.0	460385.800	1.0	227.6169	25.02	-2.56	134638.390	1.5	178558.300	1.5
227.3667	25.02	-2.22	132297.550	2.5	176265.780	1.5	227.6187	25.02	-3.54	89052.440	3.5	132971.990	3.5
227.3683	26.02	-4.37	139463.360	5.0	183431.280	5.0	227.6210	45.01	1.07	28633.420	0.0	72566.090	0.0
227.3686	18.02	-.08	240150.660	0.0	284118.510	1.0	227.6220	28.00	-2.62	3409.925	2.0	47328.850	2.0
227.3688	26.02	-1.60	135239.740	4.0	179207.570	5.0	227.6231	30.02	-2.70	238336.200	2.0	282254.900	1.0
227.3699	10.01	-2.33	280473.580	1.5	324441.190	2.5	227.6235	22.01	-4.46	983.800	2.5	44902.420	2.5
227.3756	24.02	-1.74	50408.200	5.0	94374.700	4.0	227.6259	29.01	-.85	23998.220	1.0	67916.390	1.0
227.3788	24.01	-4.10	30307.000	1.5	74273.480	1.5	227.6308	24.00	-2.68	8095.210	3.0	52012.440	2.0
227.3803	25.02	-2.35	94397.200	3.5	138362.800	3.5	227.6322	26.02	-3.56	145038.610	3.0	188955.560	3.0
227.3832	28.01	-1.83	56424.490	1.5	100389.520	2.5	227.6364	25.01	-3.67	29869.110	2.0	73785.250	2.0
227.3834	25.01	-2.73	37847.900	2.0	81812.900	2.0	227.6366	24.02	.41	66027.800	4.0	109943.900	5.0
227.3860	26.02	-1.80	88694.670	5.0	132659.170	4.0	227.6367	26.01	-1.69	31999.120	3.5	75915.210	2.5
227.3890	26.00	-4.59	7728.058	3.0	51691.980	3.0	227.6379	26.01	-4.47	50157.610	4.5	94073.460	3.5
227.3891	23.01	-3.38	8640.210	2.0	52604.110	1.0	227.6397	25.02	-2.84	94397.200	3.5	138312.700	4.5
227.3903	25.02	-3.83	91904.100	2.5	135869.760	3.5	227.6438	28.01	-.26	29070.930	1.5	72985.650	1.5
227.3912	30.02	-4.62	238205.500	1.0	282169.000	2.0	227.6513	20.02	-.37	279741.800	2.0	323655.080	2.0
227.3925	23.01	-2.86	20622.990	3.0	64586.230	2.0	227.6558	27.01	-2.68	25147.200	4.0	69059.590	3.0
227.3992	26.01	-1.50	26352.800	4.5	70314.740	4.5	227.6568	26.01	-1.96	50076.100	1.5	93988.300	2.5
227.4002	25.01	-1.95	37851.150	3.0	81812.900	2.0	227.6580	83.00	-1.07	0.000	0.0	43925.537	0.0
227.4005	30.02	-3.97	260988.400	4.0	304950.100	5.0	227.6594	25.01	-2.45	29869.110	2.0	73780.810	3.0
227.4009	26.02	-4.16	97041.380	3.0	141002.990	4.0	227.6648	25.02	-.97	91948.300	3.5	135858.960	2.5
227.4051	30.02	-3.86	260981.900	3.0	304942.700	4.0	227.6651	30.02	-2.29	216895.300	1.0	260805.900	2.0
227.4053	26.01	-1.71	50187.950	3.5	94148.710	4.5	227.6664	26.02	-3.40	93512.640	4.0	137423.000	3.0
227.4057	28.01	-1.13	56371.410	3.5	100332.090	4.5	227.6672	28.01	.06	54557.050	4.5	98467.250	3.5
227.4083	25.01	-3.77	29951.120	1.0	73911.310	1.0	227.6698	22.00	-1.36	170.132	3.0	44079.840	2.0
227.4089	26.00	-3.01	7985.783	2.0	51945.860	1.0	227.6701	26.02	-4.59	69695.730	4.0	113605.370	3.0
227.4090	26.00	-1.81	704.003	2.0	44664.061	2.0	227.6722	18.01	-3.04	151087.250	2.5	194996.490	1.5
227.4117	26.00	-4.12	7985.783	2.0	51945.860	1.0	227.6748	25.01	-3.39	35004.430	3.0	78913.170	2.0
227.4162	25.01	-4.12	31760.930	2.0	75719.590	1.0	227.6752	10.01	-4.71	280262.330	3.5	324170.990	2.5
227.4165	24.01	-5.28	25033.950	3.5	68992.550	4.5	227.6761	26.01	-2.84	20516.980	2.5	64425.460	2.5
227.4220	24.01	-4.67	30156.940	3.5	74114.480	3.5	227.6761	10.01	-3.34	280262.330	3.5	324170.990	2.5
227.4286	26.01	-8.13	23317.600	2.5	67273.860	1.5	227.6781	30.02	-1.83	217073.800	2.0	260981.900	3.0
227.4288	9.02	-4.80	416185.420	2.5	460141.630	2.5	227.6838	25.01	-4.96	62572.200	2.0	106479.280	1.0
227.4304	26.02	-3.27	135705.570	3.0	179661.480	3.0	227.6872	26.02	-1.74	77102.430	2.0	121008.700	3.0
227.4321	26.00	-4.67	8154.713	1.0	52110.300	1.0	227.6899	25.02	-1.99	135246.270	2.5	179152.090	3.5
227.4340	25.02	-.49	91906.100	2.5	135861.320	1.5	227.6940	71.01	-.72	27100.927	0.0	71019.519	0.0
227.4378	26.02	-2.81	135239.740	4.0	179194.220	4.0	227.6952	8.02	-2.19	394612.700	3.0	438517.500	4.0
227.4380	78.00	-.44	725.918	0.0	44693.944	0.0	227.7013	28.01	-3.99	67880.160	2.5	111783.790	3.5
227.4388	30.02	-6.58	260988.400	4.0	304942.700	4.0	227.7031	23.02	-2.46	102075.000	2.5	145978.270	2.5
227.4462	25.02	-2.16	91906.100	2.5	135858.960	2.5	227.7046	9.04	-3.16	816275.000	1.5	860178.000	2.5
227.4503	27.00	-.80	0.000	4.5	43952.060	5.5	227.7049	26.02	-3.24	135990.620	4.0	179893.560	5.0
227.4508	26.01	-2.73	22637.190	4.5	66589.170	4.5	227.7070	25.02	-1.58	135781.090	5.5	179683.610	4.5
227.4553	25.02	-2.24	135732.500	4.5	179683.610	4.5	227.7096	10.01	-4.17	280268.960	2.5	324170.990	2.5
227.4594	28.01	-1.06	68735.980	2.5	112686.300	2.5	227.7097	26.00	-3.18	7728.058	3.0	51630.070	2.0
227.4600	27.02	-2.82	82920.700	3.5	126870.900	2.5	227.7105	10.01	-1.73	280268.960	2.5	324170.990	2.5
227.4618	23.01	-2.66	20980.920	2.0	64930.760	1.0	227.7107	24.01	-4.12	31083.110	1.5	74984.930	1.5
227.4620	75.00	-.17	0.000	0.0	43963.387	0.0	227.7126	25.01	-1.36	37811.570	1.0	81713.020	0.0
227.4631	27.00	-1.02	5075.830	1.5	49025.420	1.5	227.7157	26.02	-2.35	88663.870	4.0	132564.710	5.0
227.4662	28.00	.44	1332.153	3.0	45281.152	3.0	227.7160	72.01	-.12	0.000	0.0	43914.349	0.0
227.4667	23.01	-5.64	20260.190	5.0	64229.100	5.0	227.7198	26.02	-1.54	135316.420	5.0	179216.470	6.0
227.4672	30.02	-4.33	260981.900	3.0	304930.700	3.0	227.7201	27.02	-1.28	86283.800	4.5	1	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
227.7953	26.01	-2.73	50187.950	3.5	94073.460	3.5	228.1308	26.02	-2.60	93388.750	4.0	137209.730	4.0
227.7959	15.01	-2.01	88193.000	4.0	132078.400	4.0	228.1500	26.02	-2.69	93392.450	3.0	137209.730	4.0
227.8026	25.01	-1.59	37847.900	2.0	81732.000	1.0	228.1508	18.01	-3.04	155708.020	.5	199525.150	1.5
227.8029	25.01	-2.68	43696.190	3.0	87580.230	4.0	228.1564	28.01	+2.2	72375.420	1.5	116191.470	2.5
227.8036	26.01	-3.57	18360.650	1.5	62244.570	1.5	228.1591	23.01	-2.44	8841.970	3.0	52657.510	4.0
227.8060	25.02	-4.68	133086.570	4.5	176970.010	5.5	228.1592	23.01	-1.83	18269.490	1.0	62085.020	2.0
227.8088	25.01	-1.90	44315.170	6.0	88198.070	6.0	228.1608	22.01	-4.00	1087.210	3.5	44902.420	2.5
227.8141	25.02	-3.55	89704.690	4.5	133086.570	4.5	228.1615	23.01	-1.73	20242.320	4.0	64057.390	3.0
227.8164	25.00	-4.88	17052.290	4.5	60933.730	5.5	228.1620	75.00	-3.31	0.000	0.0	43828.508	0.0
227.8190	44.00	-1.04	1129.205	0.0	45023.700	0.0	228.1632	26.00	-2.23	12968.552	2.0	56783.306	3.0
227.8280	14.00	-3.00	15394.370	0.0	59273.575	1.0	228.1646	26.00	-3.76	11976.239	4.0	55790.720	3.0
227.8300	27.00	-2.36	1809.330	1.5	45688.150	2.5	228.1679	25.02	-3.63	135869.760	3.5	179683.610	4.5
227.8313	29.01	-4.59	73353.120	2.0	117231.690	1.0	228.1729	27.02	-4.85	126381.800	1.5	170194.700	2.5
227.8317	28.01	-2.7	32523.540	3.5	76402.030	2.5	228.1796	26.01	-3.19	37847.900	2.0	81659.500	3.0
227.8337	17.02	-7.75	201073.400	5.5	244951.500	.5	228.1801	7.01	-1.10	170572.610	2.0	214384.130	2.0
227.8353	26.02	-3.80	135316.420	5.0	179194.220	4.0	228.1840	25.01	-3.98	38901.800	4.0	82712.550	3.0
227.8405	26.02	-1.76	90483.590	3.0	134360.400	4.0	228.1902	24.01	-1.50	25033.950	3.5	68843.510	3.5
227.8421	24.02	-3.88	71676.200	4.0	115552.700	3.0	228.1910	77.00	.45	9759.560	0.0	53582.498	0.0
227.8442	27.02	-1.17	82363.300	4.5	126239.400	4.5	228.1966	25.01	-3.24	37851.150	3.0	81659.500	3.0
227.8472	11.02	-2.8	374681.400	.5	418556.900	.5	228.1995	26.00	-3.71	704.003	2.0	44511.795	2.0
227.8593	26.02	-4.44	98661.880	1.0	142535.070	2.0	228.2000	38.01	-5.57	23715.190	0.0	67536.399	0.0
227.8623	26.00	-2.19	888.132	1.0	44760.739	1.0	228.2044	25.01	-4.20	27583.300	4.0	71390.140	3.0
227.8749	28.01	-2.88	73893.730	1.5	117763.910	1.5	228.2078	27.02	-3.96	126549.300	3.5	170355.500	2.5
227.8770	28.01	.24	13550.390	3.5	57420.160	2.5	228.2082	26.02	-3.77	13625.170	4.0	183431.280	5.0
227.8784	26.00	-1.58	415.932	3.0	44285.436	2.0	228.2119	24.02	-3.89	115570.200	4.0	159375.600	3.0
227.8791	26.02	-2.79	76956.790	3.0	120826.170	2.0	228.2140	30.02	-1.92	217073.800	2.0	260878.800	3.0
227.8864	26.02	-4.99	136008.740	3.0	179876.710	4.0	228.2161	18.02	-1.10	240291.660	2.0	284096.260	2.0
227.8897	24.01	-2.31	31117.590	2.5	74984.930	1.5	228.2180	18.02	-1.93	187823.050	2.0	231627.300	1.0
227.8904	25.01	-2.78	43850.420	2.0	87717.620	3.0	228.2190	73.01	.54	967.890	0.0	44785.451	0.0
227.8953	9.02	-4.52	351519.420	2.5	395385.660	2.5	228.2203	25.02	-1.62	91906.100	2.5	135709.900	2.5
227.8965	25.01	-3.50	29919.220	2.0	73785.250	2.0	228.2234	24.01	-4.89	19798.010	2.5	63601.200	3.5
227.8972	23.01	-5.76	20363.220	6.0	64229.100	5.0	228.2260	76.01	1.58	0.000	0.0	43816.217	0.0
227.9018	27.01	-1.88	24074.600	2.0	67939.600	2.0	228.2301	25.01	-4.60	27588.230	3.0	71390.140	3.0
227.9025	18.02	.05	225147.930	2.0	269012.800	2.0	228.2332	26.01	-2.98	25805.320	4.5	69606.640	3.5
227.9071	25.02	-1.69	94771.470	2.5	138635.460	2.5	228.2343	25.01	-5.93	27589.030	2.0	71390.140	3.0
227.9125	26.01	-2.90	25787.600	1.5	69550.540	2.5	228.2360	28.01	-1.16	72985.650	1.5	116786.420	.5
227.9156	26.00	-2.25	12560.933	3.0	56423.276	4.0	228.2369	27.01	-4.81	27902.500	4.0	71703.100	5.0
227.9171	26.01	-1.35	22610.330	3.5	66672.390	3.5	228.2380	24.02	-1.77	71868.500	6.0	115668.900	5.0
227.9174	27.02	-3.29	129747.300	2.5	173609.300	1.5	228.2382	26.01	-4.34	50187.950	3.5	93988.300	2.5
227.9174	27.02	-3.29	129747.300	2.5	173609.300	1.5	228.2392	14.01	-4.80	79338.760	1.5	123138.930	1.5
227.9174	27.02	-3.86	129747.300	2.5	173609.300	1.5	228.2405	23.01	-4.43	13542.680	3.0	57342.590	2.0
227.9195	25.01	-2.98	29919.220	2.0	73780.810	3.0	228.2429	22.00	-3.75	0.000	2.0	43799.455	2.0
227.9216	23.02	-3.71	101785.810	1.5	145547.000	1.5	228.2432	28.02	-2.97	78482.900	1.0	122282.300	2.0
227.9230	18.02	-1.18	240257.590	1.0	284118.510	1.0	228.2478	26.02	-2.06	69836.830	3.0	113535.340	4.0
227.9251	9.01	-2.49	215069.590	2.0	258930.110	2.0	228.2489	28.00	-3.33	3409.925	2.0	47208.228	1.0
227.9278	24.02	-3.06	71321.800	3.0	115181.800	2.0	228.2492	26.01	-2.08	64832.000	4.5	108630.240	5.5
227.9278	9.04	-1.84	816516.000	2.5	860376.000	1.5	228.2585	24.01	-2.85	25047.040	2.5	68843.510	3.5
227.9339	9.01	-6.99	246283.630	2.0	290142.460	2.0	228.2609	26.02	-4.25	69788.190	1.0	113584.200	2.0
227.9379	23.01	-2.07	8841.970	3.0	52700.030	2.0	228.2610	10.04	-6.66	596626.000	1.0	640422.000	1.0
227.9392	29.02	-2.75	78779.400	1.5	122637.200	.5	228.2623	18.01	-1.37	151087.250	2.5	194883.000	3.5
227.9401	18.02	-7.71	225155.180	1.0	269012.800	2.0	228.2724	25.01	-2.19	29889.310	3.0	73683.110	4.0
227.9450	27.02	-1.94	86327.100	3.5	130183.800	3.5	228.2800	28.01	-1.87	72375.420	1.5	116167.760	1.5
227.9492	27.00	-1.32	4690.180	2.5	48546.070	1.5	228.2862	23.01	-2.64	18293.870	2.0	62085.020	2.0
227.9530	25.02	-1.73	89704.690	4.5	133059.840	3.5	228.2862	26.00	-5.73	8154.713	1.0	51945.860	1.0
227.9530	28.01	-1.74	55299.650	4.5	99154.810	4.5	228.2872	26.01	-2.77	18360.650	1.5	62151.610	2.5
227.9619	24.01	-2.57	30864.610	2.5	74718.050	1.5	228.2891	26.00	-5.51	8154.713	1.0	51945.310	2.0
227.9648	18.02	-6.55	225147.930	2.0	269000.800	3.0	228.2940	25.01	-3.54	38366.070	2.0	82155.720	1.0
227.9649	25.02	-3.8	90936.220	1.5	134789.080	.5	228.2964	29.02	-3.71	153609.200	3.5	197398.400	2.5
227.9658	28.01	-6.31	72985.650	1.5	116838.330	1.5	228.2971	26.01	-2.30	31811.870	2.5	75600.930	3.5
227.9689	27.02	-2.72	128524.900	2.5	172377.000	3.5	228.2979	26.02	-2.91	138491.810	1.0	182480.720	2.0
227.9707	23.01	-5.67	13490.840	2.0	57342.590	2.0	228.3056	18.01	-1.96	155351.030	1.5	199138.450	1.5
227.9741	26.00	-3.55	7985.783	2.0	51836.870	1.0	228.3076	26.00	-3.25	8154.713	1.0	51941.760	0.0
227.9764	23.01	-1.72	20280.190	5.0	64130.840	4.0	228.3091	8.02	-1.87	394516.450	1.0	438303.200	2.0
227.9771	25.00	-4.64	17052.290	4.5	60902.800	3.5	228.3127	25.02	-2.01	91906.100	2.5	135692.170	3.5
227.9798	26.01	-5.06	3117.480	1.5	46967.470	2.5	228.3183	25.01	-2.85	38366.070	2.0	82151.070	2.0
227.9798	24.02	-2.61	115181.800	2.0	159031.800	2.0	228.3193	25.02	-1.19	94850.660	1.5	138635.460	2.5
227.9845	11.02	-2.96	416910.200	.5	460759.300	.5	228.3215	18.01	-2.88	147227.970	.5	191012.350	1.5
227.9903	27.00	-1.76	0.000	4.5	43847.980	3.5	228.3220	23.01	-3.84	20242.320	4.0	64026.600	4.0
227.9915	26.01	-1.67	384.770	3.5	44232.510	4.5	228.3224	25.02	-1.68	91948.300	3.5	135732.500	4.5
227.9937	26.00	-1.90	704.003	2.0	44551.325	3.0	228.3242	18.01	-3.30	170400.940	2.5	214184.790	3.5
227.9965	22.00	-1.21	386.874	4.0	44233.650	3.0	228.3253	14.01	-3.85	79355.280	2.5	123138.930	1.5
228.0000	77.00	.23	6291.287	0.0	50150.936	0.0	228.3304	26.00	-1.27	978.076	0.0	44760.739	1.0
228.0039	26.01	-2.83	50142.930	2.5	93988.300	2.5	228.3313	8.02	-1.86	394612.700	3.0	438395.200	3.0
228.0042	25.02	-1.53	89052.440	3.5	132897.740	2.5	228.3313	11.02	-1.93	373633.000	1.5	417415.500	1.5
228.0083	26.02	-3.17	135735.310	5.0	179579.830	5.0	228.3338	26.01	-2.02	21581.640	4.5	65363.660	5.5
228.0086	26.01	-2.34	21711.890	3.5	65556.340	4.5	228.3348	26.02	-3.02	90483.590	3.0	134265.420	2.0
228.0187	26.01	-2.85	30764.460	3.5	74606.970	2.5	228.3403	23.02	-1.59	56160.420	2.5	99941.200	3.5
228.0224	26.00	-4.37	7985.783	2.0	51827.590	2.0	228.3434	23.01	-5.24	9097.810	4.0	52877.990</	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
228.4106	25.02	-2.81	89204.690	4.5	132971.990	3.5
228.4192	29.01	-2.54	95565.650	4.0	139331.300	3.0
228.4218	25.01	-4.01	48317.850	4.0	92083.000	3.0
228.4226	26.01	-2.21	18360.650	1.5	62125.660	1.5
228.4242	29.02	-3.17	153609.200	3.5	197373.900	3.5
228.4254	22.01	-2.54	9363.710	.5	53128.170	1.5
228.4329	25.00	-4.68	18531.640	3.5	62294.660	3.5
228.4388	27.00	-1.60	5075.830	1.5	48837.720	.5
228.4404	25.02	-1.02	91948.300	3.5	135709.900	2.5
228.4404	27.02	-4.20	127317.700	3.5	171079.300	3.5
228.4404	27.02	-4.20	127317.700	3.5	171079.300	3.5
228.4434	22.01	-3.47	8710.470	1.5	52471.480	2.5
228.4517	8.01	-4.41	211521.980	1.5	255281.400	.5
228.4532	14.01	-4.48	79338.760	1.5	123097.890	.5
228.4592	26.01	-2.24	42658.230	3.5	86416.220	3.5
228.4600	77.00	.30	13873.093	0.0	57644.432	0.0
228.4603	22.01	-2.48	9363.710	.5	53121.480	.5
228.4615	26.02	-1.71	135990.620	4.0	179748.170	5.0
228.4659	24.00	-1.97	8307.570	4.0	52064.270	4.0
228.4748	23.01	-3.75	11908.270	2.0	55663.270	1.0
228.4795	26.02	-3.61	138054.590	5.0	181808.700	5.0
228.4805	23.01	-3.45	25191.080	2.0	68945.000	3.0
228.4822	27.00	-1.21	4690.180	2.5	48443.760	2.5
228.4850	27.00	-1.77	5075.830	1.5	48828.870	2.5
228.4877	8.01	-2.57	211712.660	2.5	255465.200	3.5
228.4880	27.00	-1.15	816.000	3.5	44568.470	2.5
228.4899	28.01	-2.80	71457.740	3.5	115209.850	3.5
228.4900	74.00	-.87	1613.150	0.0	45378.741	0.0
228.4906	26.02	-3.48	136008.740	3.0	179760.720	3.0
228.4919	23.01	-2.57	8640.210	2.0	52391.940	3.0
228.4964	26.02	-2.08	77075.300	1.0	120826.170	2.0
228.4964	25.02	-4.40	131123.640	5.5	174874.500	4.5
228.4970	26.02	-4.14	136008.740	3.0	179759.490	2.0
228.4988	28.01	-3.08	92325.850	3.5	136076.260	4.5
228.4993	26.00	-.83	415.932	3.0	44166.240	3.0
228.5009	27.01	-1.70	24074.600	2.0	67824.600	2.0
228.5020	73.01	.61	5242.739	0.0	49006.032	0.0
228.5049	26.02	-2.26	136008.740	3.0	179757.980	4.0
228.5053	24.01	-4.21	33521.230	3.5	77270.400	4.5
228.5087	22.01	-2.30	8710.470	1.5	52458.980	1.5
228.5111	8.02	-.87	394555.150	2.0	438303.200	2.0
228.5114	15.01	.23	88193.000	4.0	131941.000	5.0
228.5121	23.01	-6.18	13594.730	2.0	57342.590	2.0
228.5129	13.01	-3.41	91271.200	1.0	135018.900	2.0
228.5132	28.01	-4.97	75917.630	3.5	119665.290	2.5
228.5134	25.02	-3.43	134638.390	1.5	178386.000	.5
228.5147	26.02	-4.82	69836.830	3.0	113584.200	2.0
228.5160	23.02	-4.52	102075.000	2.5	145822.110	1.5
228.5170	74.00	-.10	6129.972	0.0	49890.392	0.0
228.5173	28.01	-2.7	72985.650	1.5	116732.510	2.5
228.5195	26.02	-4.45	69837.760	2.0	113584.200	2.0
228.5197	23.01	-2.39	20280.190	5.0	64026.600	4.0
228.5218	9.03	-.67	416639.800	1.0	460385.800	1.0
228.5229	22.01	-3.08	9850.900	.5	53596.700	1.5
228.5250	73.01	1.11	2581.041	0.0	46339.930	0.0
228.5305	7.01	-3.06	166521.690	1.0	210266.040	2.0
228.5330	25.02	-2.55	91948.300	3.5	135692.170	3.5
228.5380	44.00	-.33	0.000	0.0	43756.399	0.0
228.5383	29.01	-2.86	71919.930	3.0	115662.770	4.0
228.5412	27.00	-.95	3482.820	4.5	47225.110	3.5
228.5416	27.00	-3.96	7442.410	3.5	51184.630	3.5
228.5420	28.01	-3.70	76402.030	2.5	120144.170	2.5
228.5456	23.02	.00	61578.740	.5	105320.180	1.5
228.5485	13.01	-4.11	91271.200	1.0	135012.100	1.0
228.5522	26.01	-3.30	22637.190	4.5	66377.370	3.5
228.5556	25.02	-1.89	135944.080	4.5	179683.610	4.5
228.5593	26.02	-4.46	158417.310	2.0	202156.130	2.0
228.5604	28.01	-4.76	75917.630	3.5	119656.250	3.5
228.5609	18.01	-4.45	155708.020	.5	199446.540	.5
228.5636	25.02	-4.10	133949.540	4.5	177687.540	3.5
228.5647	13.01	-4.11	91271.200	1.0	135009.000	0.0
228.5687	8.02	-.14	394780.470	5.0	438517.500	4.0
228.5690	28.01	-1.01	55417.830	3.5	99154.810	4.5
228.5704	11.02	-.54	374681.400	.5	418418.100	1.5
228.5756	24.02	-1.73	70980.200	1.0	114715.900	1.0
228.5780	8.01	-4.76	212161.940	1.5	255897.200	2.5
228.5797	25.01	-4.07	27588.230	3.0	71323.150	2.0
228.5801	18.01	-.74	151087.250	2.5	194822.100	3.5
228.5839	25.01	-4.53	27589.030	2.0	71323.150	2.0
228.5860	26.02	-4.14	142535.070	2.0	186268.790	2.0
228.5895	26.01	-3.42	22939.350	2.5	66672.390	3.5
228.5928	22.01	-2.57	9395.760	1.5	53128.170	1.5
228.5945	30.02	-2.28	217073.800	2.0	260805.900	2.0
228.5995	23.01	-4.19	18353.890	3.0	62085.020	2.0
228.6003	56.01	-1.68	21952.422	0.0	65696.897	0.0
228.6034	27.01	-.33	41313.900	3.0	85044.300	3.0
228.6082	28.00	-3.44	3409.925	2.0	47139.392	2.0
228.6125	28.00	-2.03	204.786	3.0	43933.428	2.0
228.6152	29.01	-2.47	85388.770	2.0	129116.900	3.0
228.6175	27.01	.64	3350.500	5.0	47078.200	6.0
228.6200	22.01	-2.26	8744.270	2.5	52471.480	2.5
228.6217	26.02	-4.71	138103.120	4.0	181830.020	3.0
228.6261	24.01	-4.94	25033.950	3.5	68760.000	3.5
228.6278	25.02	-4.59	133751.500	3.5	177477.230	2.5
228.6278	25.02	-3.21	9395.760	1.5	53121.480	.5
228.6340	8.02	-1.03	394516.450	1.0	438241.000	1.0
228.6344	28.01	-2.71	57420.160	2.5	101144.630	3.5
228.6360	24.00	-2.90	8307.570	4.0	52031.720	3.0
228.6377	22.01	-2.55	9872.870	.5	53596.700	1.5
228.6382	26.02	-2.87	77102.430	2.0	120826.170	2.0
228.6417	25.02	-4.60	132971.990	3.5	176695.060	4.5
228.6444	26.00	-3.92	7985.783	2.0	51708.330	2.0
228.6444	26.02	-3.66	138103.120	4.0	181825.670	4.0
228.6484	15.01	.02	87967.700	3.0	131689.500	4.0
228.6504	30.02	-2.66	238336.200	2.0	282057.600	3.0
228.6515	24.02	-.39	66222.700	5.0	109943.900	5.0
228.6543	28.01	-1.54	68965.650	1.5	112686.300	2.5
228.6567	24.01	-4.99	21822.860	2.5	65543.060	3.5
228.6590	73.01	1.55	9678.902	0.0	53412.147	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
228.6601	25.01	-2.56	44138.960	1.0	87858.510	2.0
228.6609	26.02	-3.09	136185.170	5.0	179904.560	6.0
228.6618	7.01	-3.06	166582.450	2.0	210301.680	3.0
228.6625	29.01	-.35	71919.930	3.0	115639.020	2.0
228.6672	28.01	-2.84	77332.470	2.5	121050.660	2.5
228.6675	7.01	-2.69	166521.690	1.0	210239.830	1.0
228.6680	50.00	-.24	3387.616	0.0	47119.139	0.0
228.6682	25.02	-3.62	135510.700	2.5	179228.690	1.5
228.6693	9.03	-.27	456884.300	1.0	500602.100	1.0
228.6702	27.00	-3.77	7442.410	3.5	51160.030	2.5
228.6707	23.01	-3.57	32040.760	2.0	75758.290	2.0
228.6854	22.01	-3.24	8744.270	2.5	52458.980	1.5
228.6871	23.01	-5.87	20343.000	2.0	64057.390	3.0
228.6925	18.01	-2.07	148620.070	1.5	192333.430	.5
228.6946	24.01	-5.54	25047.040	2.5	68760.000	3.5
228.6996	26.01	-2.88	22810.330	3.5	66522.320	2.5
228.7003	25.00	-.36	23296.670	3.5	67008.540	2.5
228.7006	24.02	-4.40	114354.900	4.0	158066.700	3.0
228.7008	25.02	-1.82	132971.990	3.5	176693.760	2.5
228.7050	14.03	-.70	250008.020	2.5	293718.990	2.5
228.7050	14.03	.60	250008.020	2.5	293718.990	3.5
228.7057	14.03	.45	250008.140	1.5	293718.990	2.5
228.7081	28.01	.08	14995.570	2.5	58705.950	1.5
228.7095	28.01	-2.43	77332.470	2.5	121042.570	1.5
228.7121	26.02	-2.95	97041.380	3.0	140750.980	2.0
228.7251	26.00	-1.55	704.003	2.0	44411.137	1.0
228.7270	8.02	-.30	394688.440	4.0	438395.200	3.0
228.7270	73.01	1.32	12340.601	0.0	56060.844	0.0
228.7300	26.00	-5.21	7985.783	2.0	51691.980	3.0
228.7321	28.00	-1.26	1713.080	1.0	45418.858	2.0
228.7332	26.02	-3.58	138103.120	4.0	181808.700	5.0
228.7415	27.01	-.82	42008.600	1.0	85712.600	2.0
228.7441	25.01	-3.60	38901.800	4.0	82605.290	4.0
228.7495	18.02	-2.10	196589.200	1.0	240291.660	2.0
228.7510	25.02	-4.41	90936.220	1.5	134638.390	1.5
228.7510	75.00	-.04	0.000	0.0	43715.656	0.0
228.7585	26.02	-3.65	138691.810	1.0	182392.550	2.0
228.7616	26.02	-3.58	135116.800	1.5	178816.960	2.5
228.7628	26.00	-2.82	7376.762	4.0	51076.680	4.0
228.7645	28.01	.10	25036.380	2.5	68735.980	2.5
228.7739	27.02	-3.98	79425.300	2.5	123123.100	1.5
228.7759	10.01	-3.39	280473.580	1.5	324170.990	2.5
228.7772	22.01	-3.83	12628.770	1.5	56325.940	2.5
228.7776	26.02	-3.15	93512.640	4.0	137209.730	4.0
228.7802	27.01	-2.48	25147.200	4.0	68843.800	4.0
228.7828	13.01	-4.85	95546.800	3.0	139242.900	3.0
228.7864	11.02	-3.15	416910.200	.5	660605.000	1.5
228.7885	13.01	-3.95	95547.900	2.0	139242.900	3.0
228.7959	25.02	-3.05	133276.400	4.5	176970.010	5.5
228.7959	24.02	-4.39	66027.800	4.0	109721.400	3.0
228.7962	25.01	-1.28	46903.260	2.0	90596.800	2.0
228.7972	24.00	-3.84	7593.160	2.0	51286.520	2.0
228.8020	48.00	.70	0.000	0.0	43705.912	0.0
228.8042	26.00	-3.69	7376.762	4.0	51068.770	5.0
228.8120	33.00	.81	10808.108	0.0	54512.110	0.0
228.8121	8.02	-.49	394612.700	3.0	438303.200	2.0
228.8207	24.01	-4.20	64823.640	.5	90512.500	1.5
228.8209	26.02	-4.42	142908.480	5.0	186597.300	6.0
228.8210	30.02	-2.56	216895.300	1.0	260584.100	1.0
228.8225	26.01	-8.56	18360.650	1.5	62049.170	2.5
228.8365	8.02	-.73	394555.150	2.0	438241.000	1.0
228.8370	26.00	-5.40	6928.266	5.0	50614.020	4.0
228.8379	24.01	-3.49	46905.520	1.5	90591.100	2.5
228.8394	28.00	-2.36	879.813	2.0	44565.100	3.0
228.8405	7.01	-1.63	170572.610	2.0	214257.690	1.0
228.8412	26.01	-3.25	47040.540	2.5	90725.500	3.5
228.8425	27.02	-2.64	83773.400	1.5	127458.100	1.5
228.8429	25.00	-.22	23296.670	3.5	66981.300	3.5
228.8456	10.01	-2.12	280473.580	1.5	324157.680	2.5
228.8470	10.01	-2.74	280473.580	1.5	324157.430	1.5
228.8478	27.02	-3.15	128258.900	5.5	171942.600	4.5
228.8483	7.01	-2.46	166582.450	2.0	210266.040	2.0
228.8513	26.01	-7.21	23317.600	2.5	67000.630	2.5
228.8544	24.01	-2.11	20024.180	3.5	63706.620	4.5
228.8558	26.00	-3.63	8154.713	1.0	51836.870	1.0
228.8570	45.00	-.46	2581.041	0.0	46276.449	0.0
228.8613	26.00	-4.81	7728.058	3.0	51409.180	4.0
228.8619	23.02	-.89	44646.960	4.5	88327.960	3.5
228.8646	25.02	-4.92	130895.390	4.5	174575.870	3.5
228.8654	25.01	-1.97	44315.170	6.0	87995.500	5.0
228.8764	18.01	-1.04	157673.320	2.5	201351.550	2.5
228.8782	27.00	-1.81	5075.830	1.5	48753.720	1.5
228.8789	18.02	-1.21	196613.910	2.0	240291.660	2.0
228.8851	26.02	-4.62	136200.130	3.0	179876.710	4.0
228.8865	15.01	-1.93	87125.400	2.0	130801.700	1.0
228.8878	15.01	-5.13	21576.200	0.0	65252.250	1.0
228.8907	28.02	-4.24	140183.800	4.0	183859.300	3.0
228.8939	25.01	-4.53	27589.030	2.0	71263.920	1.0
228.8950	23.01	-4.62	32040.760	2.0	75715.450	1.0
228.8964	26.00	-1.83	704.003	2.0	44378.420	1.0
228.8980	51.00	-.60	9759.560	0.0	53447.141	0.0
228.9018	26.01	-2.92	22939.350	2.5	66612.740	1.5
228.9045	26.00	-4.20	8154.713	1.0	51827.590	2.0
228.9056	8.02	-4.30	327227.940	1.0	370900.600	2.0
228.9057	28.01	-3.25	53601.190	1.5	97273.830	2.5
228.9096	18.01	-3.02	157673.320	2.5	201345.220	1.5
228.9101	27.01	-1.66	24267.800	1.0	67939.600	2.0
228.9151	26.02	-1.72	135990.620	4.0	179661.460	3.0
228.9160	73.01	1.27	3145.643	0.0	46829.789	0.0
228.9207	28.01	-.81	55299.650	4.5	98969.440	5.5
228.9219	23.01	-2.64	9097.810	4.0	52767.360	3.0
228.9254	26.01	-4.19	25981.650	3.5	69650.540	2.5
228.9259	27.02	-2.66	83789.300	.5	127458.100	1.5
228.9270	78.00	-.74	725.918	0.0	44407.965	0.0
228.9280	18.02	-1.57	196589.200	1.0	240257.590	1.0
228.9293	26.02	-4.03	136008.740	3.0	179676.890	2.0
228.9320	76.00	.16	4113.534	0.0	47794.627	0.0
228.9379	18.01	-2.68	147503.020	1.5	191169.520	1.5
228.9407	22.01	-2.15	9930.740	1.5	53596.700	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
228.9417	29.01	-2.42	66418.520	2.0	110084.290	1.0	229.2253	23.01	-5.16	22273.540	1.0	65885.300	2.0
228.9460	25.02	-1.37	94697.850	3.5	138362.800	3.5	229.2334	18.02	-4.40	225402.590	3.0	269012.800	2.0
228.9494	15.01	-1.84	87967.700	3.0	131632.000	3.0	229.2339	22.01	-3.39	9518.050	2.5	53128.170	1.5
228.9503	27.00	-2.37	816.000	3.5	44480.140	2.5	229.2384	24.01	-1.70	42898.120	2.5	86507.380	2.5
228.9601	28.01	-2.99	71457.740	3.5	115120.000	2.5	229.2400	78.00	-4.75	806.575	0.0	44428.979	0.0
228.9608	14.00	-1.23	15394.370	0.0	59056.508	1.0	229.2425	25.02	-4.98	133086.570	4.5	176695.060	4.5
228.9615	9.04	-2.21	816516.000	2.5	860178.000	2.5	229.2425	26.01	-1.99	20340.360	5.5	63948.840	4.5
228.9650	8.01	-4.22	232602.570	.5	276263.900	1.5	229.2433	23.02	-4.02	42267.400	2.5	85875.740	3.5
228.9695	28.01	-3.63	51045.460	4.5	94705.930	3.5	229.2445	25.01	-4.08	38542.960	3.0	82151.070	2.0
228.9770	18.01	-1.19	170530.310	3.5	214189.360	4.5	229.2482	26.00	-6.89	8154.713	1.0	51762.120	2.0
228.9797	27.02	-2.89	83799.600	2.5	127458.100	1.5	229.2504	24.01	-3.45	46905.520	1.5	90512.500	1.5
228.9857	7.01	-3.13	166582.450	2.0	210239.830	1.0	229.2523	23.01	-2.39	25191.080	2.0	68797.700	2.0
228.9951	25.02	-3.72	94707.200	4.5	138362.800	3.5	229.2525	26.00	-1.97	415.932	3.0	44022.518	4.0
228.9972	27.02	-5.4	128085.200	2.5	171740.400	1.5	229.2540	71.01	-1.12	0.000	0.0	43619.741	0.0
228.9972	27.02	-5.4	128085.200	2.5	171740.400	1.5	229.2582	25.02	-1.61	94707.200	4.5	138312.700	4.5
228.9984	28.00	.19	0.000	4.0	43654.974	3.0	229.2582	30.02	-4.48	214357.000	1.0	257962.500	2.0
229.0010	18.01	-1.71	170530.310	3.5	214184.790	3.5	229.2584	23.01	-2.10	8640.210	2.0	52245.680	2.0
229.0020	28.01	-1.98	56424.490	1.5	100078.780	1.5	229.2592	23.01	-1.40	20980.920	2.0	64586.230	2.0
229.0050	24.00	-4.70	7593.160	2.0	51246.870	1.0	229.2629	25.02	-1.13	91906.100	2.5	135510.700	2.5
229.0065	26.00	-3.85	7728.058	3.0	51381.480	4.0	229.2655	26.02	-2.57	139827.170	4.0	183431.260	5.0
229.0079	26.02	-4.65	135554.410	4.0	179207.570	5.0	229.2657	7.01	-1.77	170607.890	1.0	214211.980	5.0
229.0101	26.02	-2.34	136008.740	3.0	179661.480	3.0	229.2672	23.02	-1.92	98383.530	2.5	141987.320	3.5
229.0125	23.02	-2.82	98062.220	1.5	141714.500	2.5	229.2688	8.01	-4.73	232462.830	2.5	276066.300	1.5
229.0141	26.02	-3.38	97041.380	3.0	140693.360	3.0	229.2688	8.01	-4.55	232462.830	2.5	276066.300	2.5
229.0167	29.01	-4.15	72724.000	2.0	116375.470	3.0	229.2692	29.01	-2.47	26264.400	2.0	69867.810	2.0
229.0178	24.01	-3.21	33619.130	4.5	77270.400	4.5	229.2776	26.01	-1.24	31999.120	3.5	75600.930	3.5
229.0217	8.01	-4.68	211521.980	1.5	255172.500	1.5	229.2799	25.01	-2.90	38542.960	3.0	82144.340	3.0
229.0226	28.01	-4.61	71457.740	3.5	115108.090	2.5	229.2828	28.01	-4.27	76402.030	2.5	120002.860	3.5
229.0255	7.01	-1.91	170607.890	1.0	214257.690	1.0	229.2859	23.02	.61	63303.120	4.5	106903.350	5.5
229.0380	25.02	-1.97	135692.170	3.5	179339.590	2.5	229.2965	18.02	.28	225402.590	3.0	269000.800	3.0
229.0411	22.01	-4.35	93.940	2.5	43740.770	3.5	229.2976	29.01	-3.47	69704.800	4.0	113302.800	4.0
229.0424	18.01	-1.32	157233.930	3.5	200880.520	3.5	229.3033	25.02	-4.00	134789.080	.5	178386.000	.5
229.0449	13.01	-3.81	91271.200	1.0	134917.300	1.0	229.3057	26.02	-4.75	105929.160	3.0	149525.630	2.0
229.0460	23.01	-5.18	19902.600	0.0	63548.500	1.0	229.3108	25.00	-4.09	0.000	2.5	43595.500	2.5
229.0536	25.00	-4.92	0.000	2.5	43644.450	1.5	229.3116	28.00	-4.65	879.813	2.0	44475.158	2.0
229.0538	27.02	-4.30	128085.200	2.5	171729.600	2.5	229.3125	27.01	-2.25	22009.230	4.0	65604.400	3.0
229.0544	26.00	-2.94	7985.783	2.0	51630.070	2.0	229.3127	26.01	-2.09	26055.400	2.5	69650.540	2.5
229.0550	27.00	-1.33	4690.180	2.5	48334.370	1.5	229.3137	26.01	-5.37	20830.520	2.5	64425.460	2.5
229.0552	23.02	.11	56160.420	2.5	99804.570	2.5	229.3152	26.02	-2.58	77102.430	2.0	120697.100	1.0
229.0563	10.01	-2.87	280797.260	2.5	324441.190	2.5	229.3168	22.01	-5.16	12628.770	1.5	56223.133	.5
229.0570	10.01	-1.57	280797.260	2.5	324441.070	3.5	229.3227	25.01	-1.99	38542.960	3.0	82136.200	4.0
229.0576	18.02	-2.02	196613.910	2.0	240257.590	1.0	229.3307	8.01	-1.36	188888.380	.5	232480.100	.5
229.0607	27.02	-3.68	126892.100	3.5	170535.200	4.5	229.3320	7.01	-1.69	170666.230	0.0	214257.690	1.0
229.0607	27.02	-3.68	126892.100	3.5	170535.200	4.5	229.3327	25.02	-5.57	94771.470	2.5	138362.800	3.5
229.0624	25.02	-2.76	94697.850	3.5	138340.620	2.5	229.3403	27.01	-4.66	4560.800	3.0	48150.700	3.0
229.0624	26.02	-1.80	136117.940	2.0	179760.720	3.0	229.3439	26.02	-2.93	135990.620	4.0	179579.830	5.0
229.0633	24.02	.34	65890.900	3.0	109533.500	4.0	229.3440	51.00	-4.07	9759.560	0.0	53362.183	0.0
229.0660	26.02	-3.89	138187.930	3.0	181830.020	3.0	229.3469	8.01	-3.35	211712.660	2.5	255301.300	2.5
229.0662	26.02	-2.91	114339.950	4.0	157982.000	3.0	229.3485	23.02	-4.40	102961.280	3.5	146549.620	4.5
229.0683	26.02	-3.14	88923.070	6.0	132564.710	5.0	229.3534	7.01	-3.04	166678.640	3.0	210266.040	2.0
229.0688	26.02	-2.58	136117.940	2.0	179759.490	2.0	229.3625	28.01	-1.13	56424.490	1.5	100010.170	.5
229.0690	21.01	-1.97	12074.000	0.0	55715.520	1.0	229.3638	20.02	-1.82	281882.240	2.0	325467.670	2.0
229.0696	25.02	-4.13	135510.700	2.5	179152.090	3.5	229.3655	26.02	-3.70	139846.180	6.0	183431.280	5.0
229.0731	26.02	-4.30	138187.930	3.0	181828.660	2.0	229.3758	22.00	-2.02	0.000	2.0	43583.140	3.0
229.0762	26.02	-1.44	135990.620	4.0	179630.770	4.0	229.3767	26.01	-1.20	22939.350	2.5	66522.320	2.5
229.0772	26.00	-3.67	7376.762	4.0	51016.720	5.0	229.3842	29.00	-4.77	11211.395	0.0	54806.377	0.0
229.0787	26.01	-4.99	25787.600	1.5	69427.270	.5	229.3848	26.00	-1.20	704.003	2.0	44285.436	2.0
229.0803	26.02	-2.45	135582.080	6.0	179221.450	7.0	229.3848	26.01	-1.44	23031.300	1.5	66612.740	1.5
229.0858	8.01	-1.69	188888.380	.5	232526.700	1.5	229.3856	28.01	-4.52	72375.420	1.5	115956.710	2.5
229.0914	26.00	-4.99	7728.058	3.0	51365.300	3.0	229.3863	26.01	-1.59	30388.550	4.5	73969.710	5.5
229.0977	29.01	-4.49	73595.640	1.0	117231.690	1.0	229.3873	26.01	-4.71	60402.380	2.5	103983.350	3.5
229.1020	25.02	-3.58	133059.840	3.5	176695.060	4.5	229.3929	27.02	-4.69	127224.700	.5	170804.600	1.5
229.1035	24.01	-4.75	31083.110	1.5	74718.050	1.5	229.3977	22.01	-2.89	9975.920	1.5	53554.900	2.5
229.1036	14.00	-2.92	6298.850	2.0	49933.775	3.0	229.3981	25.01	-2.92	34761.810	5.0	78340.720	6.0
229.1064	26.02	-3.47	135582.080	6.0	179216.470	6.0	229.4004	27.00	-4.89	816.000	3.5	44394.470	3.5
229.1096	24.01	-1.74	31351.150	2.5	74984.930	1.5	229.4080	24.01	-5.29	20024.180	3.5	63601.200	3.5
229.1116	26.00	-2.94	7728.058	3.0	51361.460	3.0	229.4103	26.00	-3.53	7728.058	3.0	51304.650	4.0
229.1117	22.01	-5.24	8997.690	3.5	52631.070	3.5	229.4138	24.01	-4.51	33694.470	5.5	77270.400	4.5
229.1118	26.00	-3.76	7985.783	2.0	51619.140	3.0	229.4166	.93	-4.60	416639.800	1.0	460215.200	0.0
229.1206	24.01	-2.72	47354.630	2.5	90986.310	3.5	229.4197	24.02	-1.34	69780.900	1.0	113355.700	2.0
229.1280	26.02	-3.02	105895.350	1.0	149525.630	2.0	229.4200	31.00	-1.56	0.000	0.0	43588.179	0.0
229.1290	26.02	-4.97	114351.920	3.0	157982.000	3.0	229.4209	23.01	-3.68	20242.320	4.0	63816.900	3.0
229.1296	26.02	-4.24	139827.170	4.0	183457.150	4.0	229.4217	22.00	-1.95	170.132	3.0	43744.550	4.0
229.1311	25.02	-2.13	135709.900	2.5	179339.590	2.5	229.4245	28.02	-2.72	97841.400	2.0	141415.300	1.0
229.1320	26.02	-4.85	139827.170	4.0	183456.690	3.0	229.4345	23.02	-3.98	102075.000	2.5	145647.000	1.5
229.1330	22.00	-4.34	170.132	3.0	43799.455	2.0	229.4347	22.01	-3.45	10024.740	2.5	53596.700	1.5
229.1341	25.01	-4.99	64473.130	3.0	108102.250	3.0	229.4369	29.01	-1.01	22846.970	2.0	66418.520	2.0
229.1368	27.02	-3.59	82920.700	3.5	126549.300	3.5	229.4370	24.01	-4.26	30864.610	2.5	7	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
229.5153	25.02	-1.79	97000.800	4.5	140557.460	4.5
229.5203	20.02	-1.74	346896.260	2.0	390451.970	3.0
229.5208	25.02	-3.94	131420.030	6.5	174975.650	5.5
229.5209	24.01	-1.11	48399.190	1.5	91954.780	2.5
229.5213	22.01	-4.13	225.470	3.5	43780.990	4.5
229.5229	27.00	-0.76	0.000	4.5	43555.220	3.5
229.5312	27.00	-3.20	8460.810	2.5	52014.450	1.5
229.5313	26.00	-5.96	8154.713	1.0	51708.330	2.0
229.5341	24.02	-4.61	114354.900	4.0	157908.000	4.0
229.5348	18.01	-1.07	158167.710	1.5	201720.670	1.5
229.5388	8.01	-3.80	232711.700	.5	276263.900	.5
229.5388	8.01	-4.86	232711.700	.5	276263.900	.5
229.5399	16.05	-1.36	583679.000	1.5	627231.000	2.5
229.5399	16.05	-2.31	583679.000	1.5	627231.000	1.5
229.5400	14.00	-3.31	6298.850	2.0	49850.830	2.0
229.5439	26.01	-3.95	26055.400	2.5	69606.640	3.5
229.5441	30.02	-4.15	214357.000	1.0	257908.200	1.0
229.5474	24.01	-2.91	47040.540	2.5	90591.100	2.5
229.5506	23.01	-1.61	8841.970	3.0	52391.940	3.0
229.5514	24.02	-2.38	71166.100	2.0	114715.900	1.0
229.5520	8.02	-3.38	327350.900	3.0	370900.600	2.0
229.5531	24.01	-2.85	25033.950	3.5	68583.440	2.5
229.5539	26.00	-1.65	11976.239	4.0	55525.580	5.0
229.5546	24.01	-4.62	20512.620	2.5	64061.820	1.5
229.5594	15.01	-4.25	87805.000	2.0	131353.300	2.5
229.5619	23.02	-0.57	56256.750	1.5	99804.570	2.0
229.5680	41.01	.64	1209.863	0.0	44769.941	0.0
229.5693	26.02	-4.73	142908.480	5.0	186454.890	5.0
229.5808	26.02	-4.70	138264.470	6.0	181808.700	5.0
229.5845	26.02	-2.53	136117.940	2.0	179661.480	3.0
229.5857	24.02	-4.68	65890.900	3.0	109433.200	2.0
229.5865	26.02	-1.13	87901.870	3.0	131445.030	2.0
229.5871	23.02	-0.99	61777.150	1.5	105320.180	1.5
229.5891	23.01	-4.87	22273.540	1.0	56816.200	1.0
229.5899	28.01	-3.93	71457.740	3.5	115000.250	3.5
229.5899	28.01	-3.11	55018.710	2.5	98561.220	2.5
229.5980	23.01	-6.09	8640.210	2.0	52181.180	1.0
229.5980	25.00	-2.89	23296.670	3.5	66837.640	2.5
229.6013	24.01	-2.72	25043.100	1.5	68583.440	2.5
229.6024	26.02	-1.48	136185.170	5.0	179725.310	6.0
229.6045	27.00	-0.32	5075.830	1.5	48615.560	2.5
229.6072	25.02	-4.10	97023.800	3.5	140563.030	3.5
229.6099	28.01	-0.07	57080.550	3.5	100619.260	4.5
229.6118	25.00	-4.87	17282.000	3.5	60820.350	2.5
229.6119	25.02	-2.64	94397.200	3.5	137935.530	4.5
229.6139	28.01	-0.95	91800.050	4.5	135338.010	5.5
229.6142	25.02	-1.88	94707.200	4.5	138245.090	5.5
229.6184	27.02	-2.98	126998.100	4.5	170535.200	4.5
229.6184	27.02	-2.98	126998.100	4.5	170535.200	4.5
229.6188	25.02	-0.90	97239.860	6.5	140776.880	5.5
229.6190	18.01	-2.21	161048.640	1.5	204585.640	2.5
229.6194	26.00	-2.52	12560.933	3.0	56977.850	3.0
229.6221	24.01	-1.94	25047.040	2.5	68583.440	2.5
229.6241	26.01	-4.81	20340.360	5.5	63876.380	5.5
229.6293	23.02	-1.42	44345.820	3.5	87880.850	2.5
229.6366	25.02	-2.39	97023.800	3.5	140557.460	4.5
229.6500	11.02	-0.08	399179.400	2.5	442710.500	1.5
229.6550	28.01	.25	13550.390	3.5	57080.550	3.5
229.6550	22.01	-2.08	10024.740	2.5	53554.900	2.5
229.6585	27.01	-1.25	21624.400	5.0	65153.900	4.0
229.6661	26.01	-0.99	21581.640	4.5	65109.710	3.5
229.6674	11.02	-0.84	399182.700	1.5	442710.500	1.5
229.6710	27.00	-1.26	4690.180	2.5	48217.320	3.5
229.6724	25.01	-2.34	29869.110	2.0	73395.970	2.0
229.6768	26.01	-1.97	21308.080	1.5	64834.120	1.5
229.6769	25.01	-1.05	29869.110	2.0	73395.120	3.0
229.6857	24.01	-2.16	42986.730	1.5	86511.080	1.5
229.6863	25.01	-4.17	54938.100	1.0	98462.340	2.0
229.6871	25.00	-3.70	0.000	2.5	43524.080	3.5
229.6876	26.01	-1.51	20516.980	2.5	64040.960	3.5
229.6877	8.01	-4.79	214169.740	.5	257693.700	.5
229.6890	6.02	.15	102351.000	0.0	145888.131	0.0
229.6893	25.01	-4.47	54938.100	1.0	98461.760	1.0
229.6894	26.02	-1.92	136235.840	1.0	179759.490	2.0
229.6915	25.01	-0.70	47073.560	3.0	90596.800	2.0
229.6928	26.00	-2.82	888.132	1.0	44411.137	1.0
229.6939	30.02	-4.67	216895.300	1.0	260418.100	2.0
229.7052	24.01	-2.81	42986.730	1.5	86507.380	2.5
229.7141	28.01	.05	10115.660	2.5	53634.620	1.5
229.7150	25.02	-2.45	135709.900	2.5	179228.690	1.5
229.7152	18.02	-1.74	187823.050	2.0	231341.800	2.0
229.7171	27.02	-2.40	128423.100	1.5	171941.500	.5
229.7171	27.02	-2.40	128423.100	1.5	171941.500	.5
229.7187	24.01	-0.39	20512.750	5.5	64030.850	6.5
229.7187	27.02	-1.69	83799.600	2.5	127317.700	3.5
229.7196	8.01	-4.24	232745.980	1.5	276263.900	.5
229.7196	8.01	-3.83	232745.980	1.5	276263.900	.5
229.7209	25.01	-2.29	38901.800	4.0	82419.480	3.0
229.7242	25.02	-3.00	135041.250	1.5	178558.300	1.5
229.7250	8.01	-4.60	232480.100	.5	275997.000	.5
229.7277	8.01	-4.82	232747.510	2.5	276263.900	1.5
229.7296	25.01	-5.47	29869.110	2.0	73385.150	1.0
229.7310	76.00	-0.51	0.000	0.0	43529.171	0.0
229.7335	22.01	-4.94	225.470	3.5	43740.770	3.5
229.7352	23.02	-2.86	103034.650	4.5	146549.620	4.5
229.7364	26.01	-5.32	25787.600	1.5	69302.350	1.5
229.7384	25.02	-4.46	133455.640	5.5	176970.010	5.5
229.7410	71.01	-0.40	28310.790	0.0	71838.066	0.0
229.7460	22.01	-5.77	9118.150	4.5	52631.070	3.5
229.7486	28.01	-0.41	57080.550	3.5	100592.980	3.5
229.7489	28.01	-0.20	10663.890	1.5	54176.260	.5
229.7510	25.01	-4.21	38720.200	6.0	82232.180	5.0
229.7574	25.01	-1.36	37811.570	1.0	81322.330	1.0
229.7620	27.02	-3.81	128017.700	3.5	171527.600	3.5
229.7622	23.01	-6.36	22273.540	1.0	65783.400	0.0
229.7650	18.01	-2.52	147503.020	1.5	191012.350	1.5
229.7665	25.02	-1.09	90440.500	4.5	133949.540	4.5
229.7691	25.01	-0.73	40759.500	0.0	84268.060	1.0
229.7714	26.02	-3.46	138264.470	6.0	181772.590	6.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
229.7728	23.01	-6.01	20622.990	3.0	64130.840	4.0
229.7736	28.01	-4.21	76402.030	2.5	119909.720	1.5
229.7788	26.00	-1.25	415.932	3.0	43922.652	3.0
229.7791	25.01	-3.37	29889.310	3.0	73395.970	2.0
229.7836	25.01	-2.17	29889.310	3.0	73395.120	3.0
229.7836	9.03	-0.11	456884.300	1.0	500390.100	2.0
229.7842	24.02	-0.52	66027.800	4.0	109533.500	4.0
229.7852	23.02	.22	61777.150	1.5	105282.650	2.5
229.7872	25.02	-2.51	97271.760	5.5	140776.880	5.5
229.7878	18.01	-4.21	147227.970	.5	190732.970	.5
229.7922	22.00	-2.93	170.132	3.0	43674.310	4.0
229.8050	77.00	.61	11775.998	0.0	55291.152	0.0
229.8090	75.01	1.31	27504.214	0.0	71018.611	0.0
229.8170	26.00	-0.48	0.000	4.0	43499.485	4.0
229.8220	25.00	-4.47	18531.640	3.5	62030.180	4.5
229.8225	26.01	-1.36	21308.080	1.5	64806.520	.5
229.8248	24.01	-2.52	47227.500	3.5	90725.500	3.5
229.8252	28.01	-2.82	53037.930	2.5	96539.870	3.5
229.8267	28.01	.24	14995.570	2.5	58493.210	2.5
229.8280	76.00	-0.29	4758.794	0.0	48269.593	0.0
229.8291	9.03	-0.04	417143.400	2.0	460640.600	2.0
229.8328	15.01	-0.77	88193.000	4.0	131689.500	4.0
229.8335	20.02	-0.55	346896.260	2.0	390392.620	3.0
229.8349	24.00	-3.48	7750.780	0.0	51246.870	1.0
229.8357	27.00	-0.79	5075.830	1.5	48571.770	.5
229.8414	28.01	-0.62	72375.420	1.5	115870.280	2.5
229.8455	10.01	-1.64	280947.100	1.5	324441.190	2.5
229.8490	28.01	-0.45	24788.200	1.5	68281.620	.5
229.8524	25.02	-4.92	132971.990	3.5	176464.780	3.5
229.8617	26.01	-2.39	23031.300	1.5	66522.320	2.5
229.8620	22.01	-3.95	12758.150	2.5	56249.110	1.5
229.8624	17.02	-0.27	205037.300	1.5	248528.200	1.5
229.8656	26.00	-1.56	888.132	1.0	44378.420	1.0
229.8673	25.02	-0.89	94850.660	1.5	138340.620	2.5
229.8716	25.01	-3.02	27589.030	2.0	71078.180	1.0
229.8743	26.02	-3.47	135705.570	3.0	179194.220	4.0
229.8745	27.01	-0.77	17771.500	3.0	61260.100	2.0
229.8777	27.02	-4.39	129706.900	3.5	173194.900	2.5
229.8777	27.02	-4.39	129706.900	3.5	173194.900	2.5
229.8777	27.02	-3.44	129706.900	3.5	173194.900	2.5
229.8863	25.00	-2.65	23296.670	3.5	65783.050	3.5
229.8897	25.01	-2.03	38901.800	4.0	82387.590	3.0
229.8911	20.02	-3.32	327962.110	1.0	371447.580	1.0
229.8931	26.02	-4.80	141466.530	3.0	184951.620	3.0
229.8957	27.02	-4.88	126870.900	2.5	170355.500	2.5
229.8962	25.01	-2.37	0.000	3.0	43484.500	2.0
229.8985	28.01	-2.85	56075.260	2.5	99559.330	2.5
229.9054	28.01	-1.26	72985.650	1.5	116468.400	1.5
229.9095	26.02	-1.32	135739.470	6.0	179221.450	7.0
229.9139	26.02	-2.05	135735.310	5.0	179216.470	6.0
229.9167	25.02	-3.12	135858.960	2.5	179339.590	2.5
229.9168	26.01	-3.47	20805.830	4.5	64286.440	3.5
229.9221	26.00	-1.94	704.003	2.0	44183.607	2.0
229.9247	24.02	-3.84	115552.700	3.0	159031.800	2.0
229.9291	25.02	-3.46	135861.320	1.5	179339.590	2.5
229.9292	24.00	-4.27	20519.600	6.0	63997.860	6.0
229.9359	26.02	-2.36	135739.470	6.0	179216.470	6.0
229.9362	13.02	-1.68	165786.320	2.5	209263.250	2.5
229.9362	13.02	-3.37	165786.320	2.5	209263.250	3.5
229.9371	26.02	-1.93	136200.130	3.0	179676.890	2.0
229.9372	25.01	-5.69	29919.220	2.0	73395.970	2.0
229.9417	25.01	-2.38	29919.220	2.0	73395.120	3.0
229.9425	13.02	-0.53	165787.510	1.5	209263.250	2.5
229.9427	24.00	-3.53	7810.820	1.0	51286.520	2.0
229.9445	26.00	-3.68	8154.713	1.0	51630.070	2.0
229.9468	29.01	-1.10	73101.870	1.0	116576.810	0.0
229.9494	25.01	-1.21	37847.900	2.0	81322.330	1.0
229.9518	25.01	-4.28	44521.520	4.0	87995.500	5.0
229.9523	23.01	-4.76	20343.000	2.0	63816.900	3.0
229.9528	22.01	-5.53	8997.690	3.5	52471.480	2.5
229.9530	77.00	.09	7017.024	0.0	50504.351	0.0
229.9556	26.00	-4.64	7728.058	3.0	51201.330	2.0
229.9567	26.02	-4.43	135705.570	3.0	179178.620	3.0
229.9609	26.02	-2.90	135735.310	5.0	179207.570	5.0
229.9611	26.01	-3.63	43238.610	2.5	86710.840	1.5
229.9625	24.01	-3.48	47040.540	2.5	90512.500	1.5
229.9653	28.01	-0.09	23108.280	2.5	66579.710	1.5
229.9713	8.01	-4.27	23252.700	1.5	275997.000	.5
229.9716	27.00	-4.35	5075.830	1.5	48546.070	1.5
229.9717	10.01	-3.55	280700.770	3.5	324170.990	2.5
229.9727	10.01	-2.19	280700.770	3.5	324170.810	3.5
229.9734	18.03	-0.57	256093.290	.5	299563.200	.5
229.9738	26.00	-3.27	11976.239	4.0	55446.060	4.0
229.9738	25.02	-2.04	135869.760	3.5	179339.590	2.5
229.9766	27.01	-0.04	17771.500	3.0	61240.800	3.0
229.9770	75.00	.08	11695.340	0.0	55177.949	0.0
229.9784	24.02	-4.47	98062.220	1.5	141531.170	1.5
229.9829	26.02	-3.76	135739.470	6.0	179207.570	5.0
229.9852	26.02	-4.61	158562.700	2.0	202030.380	3.0
229.9858	29.00	-1.35	0.000	2.0	43467.550	2.0
229.9903	26.02	-1.48	92523.910	5.0	135990.620	4.0
229.9911	26.01	-4.26	33521.230	3.5	76987.780	2.5
229.9922	18.01	-3.43	161048.640	1.5	204515.000	.5
229.9944	25.01	-5.67	29919.220	2.0	73385.150	1.0
229.9945	26.01	-0.89	42658.230	3.5	86124.140	4.5
230.0018	29.01	-3.66	85388.770	2.0	128853.300	2.0
230.0035	8.02	-4.41	329581.980	1.0	373046.200	0.0
230.0061	8.01	-4.35	232602.570	.5	276066.300	1.5
230.0079	25.01	.09	48491.390	2.5	91954.780	2.5
230.0082	24.02	-2.50	94771.470	2.5	138234.790	1.5
230.0096	28.01	.21	23108.280	2.5	66571.340	2.5
230.0140	26.00	-2.33	704.003	2.0	44166.240	3.0
230.0155	28.01	-1.67	91800.050	4.5	135261.990	4.5
230.0157	27.02	-4.48	125227.000	3.5	166868.900	2.5
230.0178	18.01	-1.31	155351.030	1.5	198812.550	2.5
230.0187	26.02	-1.66	136200.130	3.0	179661.480	3.0
230.0188	25.01	-1.32	41182.530	7.0	84643.860	6.0
230.0209	24.01	-4.62	33418.110	2.5	76879.030	.5
230.0230	10.01	-2.38	280700.770	3.5	324161.310	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
230.0247	27.00	-6.16	7442.410	3.5	50902.610	4.5	230.3378	24.01	-4.72	31083.110	1.5	74484.250	2.5
230.0247	10.01	-1.03	280700.770	3.5	324160.980	4.5	230.3420	26.00	-2.15	978.076	0.0	44378.420	1.0
230.0262	25.02	-3.54	135692.170	3.5	179152.090	3.5	230.3490	73.01	.49	967.890	0.0	44380.277	0.0
230.0265	24.01	-5.24	29952.080	.5	73411.940	1.5	230.3512	27.00	-1.85	0.000	4.5	43398.620	3.5
230.0267	24.01	-4.51	33619.130	4.5	77078.960	5.5	230.3554	26.01	-2.32	21711.890	3.5	65109.710	3.5
230.0267	8.01	-3.76	211712.660	2.5	255172.500	1.5	230.3555	28.01	-4.68	75917.630	3.5	119315.440	2.5
230.0293	25.00	-2.03	23549.200	2.5	67008.540	2.5	230.3582	26.00	-2.59	888.132	1.0	44285.436	2.0
230.0314	23.01	-6.81	20089.560	1.0	63548.500	1.0	230.3600	25.01	-3.26	38720.200	6.0	82117.160	5.0
230.0316	26.02	-4.25	135735.310	5.0	179194.220	4.0	230.3690	28.01	-1.10	57080.550	3.5	100475.820	3.5
230.0347	8.01	-.94	189068.370	1.5	232526.700	1.5	230.3722	26.02	-1.19	136185.170	5.0	179579.830	5.0
230.0422	10.01	-4.82	280700.770	3.5	324157.680	2.5	230.3752	28.01	-1.68	32523.540	3.5	75917.630	3.5
230.0474	26.01	-2.98	20830.520	2.5	64286.440	3.5	230.3752	28.01	-2.51	70358.940	4.5	113753.040	4.5
230.0500	77.00	.33	6291.287	0.0	49760.098	0.0	230.3830	74.01	.30	1451.835	0.0	44857.815	0.0
230.0544	24.01	-3.67	29952.080	.5	73406.680	.5	230.3853	28.01	-.40	29593.460	.5	72985.650	1.5
230.0562	24.01	-2.58	30864.610	2.5	74318.860	2.5	230.3871	23.01	-7.14	20156.640	0.0	63548.500	1.0
230.0567	24.01	-.88	32355.940	3.5	75810.100	4.5	230.3974	27.00	-.60	3482.820	4.5	46872.740	3.5
230.0594	26.00	-1.09	11976.239	4.0	55429.890	5.0	230.4013	26.01	-1.46	31531.620	1.5	74920.800	.5
230.0608	25.01	-2.03	41190.470	6.0	84643.860	6.0	230.4023	25.01	-3.42	37847.900	2.0	81236.890	1.0
230.0612	24.01	-2.65	31531.620	1.5	74984.930	1.5	230.4027	10.01	-2.42	280768.520	.5	324157.430	1.5
230.0700	10.01	-2.03	280989.530	1.5	324441.190	2.5	230.4088	22.01	-4.81	393.220	4.5	43780.990	4.5
230.0719	27.02	-2.40	83773.400	1.5	127224.700	.5	230.4171	27.02	-1.89	129747.300	2.5	173133.500	1.5
230.0740	28.02	-3.99	138031.400	4.0	181482.300	4.0	230.4179	24.01	-2.31	47464.940	4.5	90851.000	4.5
230.0778	28.00	-.38	204.786	3.0	43654.974	3.0	230.4186	27.00	-1.20	816.000	3.5	44201.920	2.5
230.0779	24.01	-1.93	34659.480	.5	78109.640	1.5	230.4220	77.00	.47	2823.013	0.0	46221.647	0.0
230.0846	27.02	-1.87	128017.700	3.5	171466.600	2.5	230.4249	56.01	1.20	4873.850	0.0	48271.938	0.0
230.0846	27.02	-1.87	128017.700	3.5	171466.600	2.5	230.4250	42.01	.66	27504.214	0.0	70902.283	0.0
230.0849	18.02	-.28	209127.040	1.0	252575.880	1.0	230.4262	24.01	-2.65	33694.470	5.5	77078.960	5.5
230.0865	28.01	-3.71	55018.710	2.5	98467.250	3.5	230.4281	25.02	-1.31	94850.660	1.5	138234.790	1.5
230.0901	26.02	-4.76	142855.590	4.0	186303.440	3.0	230.4282	26.02	-3.00	93412.930	2.0	136797.050	3.0
230.0941	26.02	-1.92	136235.840	1.0	179682.940	1.0	230.4362	8.01	-4.96	185340.680	1.5	228723.300	2.5
230.1016	28.01	-1.53	24835.930	.5	68281.620	.5	230.4426	27.02	-1.86	128085.200	2.5	171466.600	2.5
230.1021	26.02	-1.89	136185.170	5.0	179630.770	4.0	230.4426	27.02	-1.86	128085.200	2.5	171466.600	2.5
230.1021	27.02	-4.00	124765.900	5.5	168211.500	4.5	230.4426	27.02	-4.37	128085.200	2.5	171466.600	2.5
230.1060	25.01	-3.15	29951.120	1.0	73395.970	2.0	230.4453	26.02	-3.58	93412.930	2.0	136793.820	2.0
230.1150	24.01	-3.59	25033.950	3.5	68477.110	4.5	230.4511	27.02	-1.63	86327.100	3.5	129706.900	3.5
230.1180	26.01	-4.25	42237.050	3.5	85679.640	2.5	230.4526	26.00	-4.18	7985.783	2.0	51365.300	3.0
230.1190	27.02	-4.19	128085.200	2.5	171527.600	3.5	230.4564	27.02	-1.97	83938.900	3.5	127317.700	3.5
230.1201	25.02	-3.59	135709.900	2.5	179152.090	3.5	230.4582	8.01	-2.94	232462.830	2.5	275841.300	3.5
230.1238	25.02	-3.07	135116.800	1.5	175858.300	1.5	230.4596	25.02	-3.02	133086.570	4.5	176464.780	3.5
230.1245	23.01	-3.59	11908.270	2.0	55349.630	3.0	230.4730	26.00	-3.72	7985.783	2.0	51361.460	3.0
230.1256	25.00	-3.67	23296.670	3.5	66737.820	3.5	230.4732	26.01	-.56	22637.190	4.5	66012.830	4.5
230.1262	26.02	-2.49	136235.840	1.0	179676.890	2.0	230.4834	10.01	-2.67	280797.260	2.5	324170.990	2.5
230.1299	23.01	-5.62	20617.050	2.0	64057.390	3.0	230.4844	10.01	-1.43	280797.260	2.5	324170.990	2.5
230.1336	18.01	-4.65	147503.020	1.5	190942.650	.5	230.4889	25.01	-2.33	37847.900	2.0	81220.580	3.0
230.1343	25.01	-3.08	41204.340	5.0	84643.860	6.0	230.4893	28.01	-3.11	92373.450	2.5	135746.060	3.5
230.1370	15.01	-2.38	88193.000	4.0	131632.000	3.0	230.4898	25.02	-2.56	132897.740	2.5	176270.250	2.5
230.1418	27.01	-.71	4950.000	2.0	48388.100	2.0	230.4920	7.01	-1.14	186570.980	3.0	229943.100	4.0
230.1422	26.01	-2.32	22939.350	2.5	66377.370	3.5	230.5012	25.01	-2.01	0.000	3.0	43370.370	3.0
230.1466	27.02	-4.19	125012.400	4.5	168449.600	3.5	230.5046	25.02	-1.96	135858.960	2.5	179228.690	1.5
230.1470	73.01	1.13	12582.573	0.0	56033.063	0.0	230.5062	25.01	-3.17	37851.150	3.0	81220.580	3.0
230.1527	24.00	-3.92	7810.820	1.0	51246.870	1.0	230.5107	18.01	-3.97	161048.640	1.5	204417.230	1.5
230.1561	27.02	-2.76	83789.300	.5	127224.700	.5	230.5142	27.00	-1.74	5075.830	1.5	48443.760	2.5
230.1614	23.01	-4.32	20622.990	3.0	64057.390	3.0	230.5168	28.01	-3.71	52205.950	3.5	95573.390	3.5
230.1626	24.01	-5.25	21822.860	2.5	65257.030	3.5	230.5170	26.02	-3.83	139463.360	5.0	182830.760	6.0
230.1634	25.01	-4.18	29951.120	1.0	73385.150	1.0	230.5172	25.02	-2.70	135861.320	1.5	179228.690	1.5
230.1685	26.00	-1.55	978.076	0.0	44411.137	1.0	230.5173	27.00	-.56	816.000	3.5	44183.340	4.5
230.1731	28.02	-3.04	76237.800	3.0	119670.000	2.0	230.5197	24.01	-3.69	31351.150	2.5	74718.050	1.5
230.1736	25.00	-.98	23549.200	2.5	66981.300	3.5	230.5207	26.02	-4.00	110505.000	6.0	153871.700	7.0
230.1813	26.02	-2.83	136200.130	3.0	179630.770	4.0	230.5209	24.01	-4.00	31117.590	2.5	74484.250	2.5
230.1824	18.01	-1.53	155708.020	.5	199138.450	1.5	230.5239	28.01	-.57	24788.200	1.5	68154.310	1.5
230.1868	15.0.	-2.30	86744.700	1.0	130174.300	2.0	230.5241	24.00	-3.40	7810.820	1.0	51176.880	0.0
230.1923	25.01	-3.43	37851.150	3.0	81279.710	4.0	230.5349	10.01	-2.70	280797.260	2.5	324161.310	3.5
230.2075	18.01	-1.79	161089.310	.5	204515.000	.5	230.5372	24.01	-3.23	47227.500	3.5	90591.100	2.5
230.2077	18.01	-1.39	158730.210	2.5	202155.860	2.5	230.5415	26.01	-2.95	30388.550	4.5	73751.340	4.5
230.2080	41.01	.47	725.918	0.0	44164.895	0.0	230.5470	77.00	-.04	5726.684	0.0	49101.788	0.0
230.2095	25.01	-3.50	37811.570	1.0	81236.890	1.0	230.5508	26.01	-2.13	43238.610	2.5	86599.660	2.5
230.2162	18.02	-.06	209151.820	2.0	252575.880	1.0	230.5521	24.01	-2.10	32355.940	3.5	75716.740	3.5
230.2213	27.02	-1.77	86283.800	4.5	129706.900	3.5	230.5541	10.01	-3.50	280797.260	2.5	324157.680	2.5
230.2240	73.01	1.19	5565.369	0.0	49001.327	0.0	230.5554	10.01	-3.43	280797.260	2.5	324157.430	1.5
230.2253	23.01	-3.75	11295.510	0.0	54717.850	1.0	230.5614	26.00	-3.26	7927.470	2.0	51286.520	2.0
230.2257	25.01	-2.00	38720.200	6.0	82142.460	6.0	230.5679	26.01	-2.67	18886.750	.5	62244.570	1.5
230.2367	27.02	-1.57	86327.100	3.5	129747.300	2.5	230.5681	24.01	-4.04	33521.230	3.5	76879.030	3.5
230.2399	25.02	-3.08	157332.500	4.5	179152.090	3.5	230.5687	22.00	-1.15	386.874	4.0	43744.550	4.0
230.2401	25.01	-3.77	44521.520	4.0	87941.080	4.0	230.5706	25.02	-3.86	94771.470	2.5	138128.800	1.5
230.2448	25.02	-2.43	133276.400	4.5	176695.060	4.5	230.5709	24.00	-4.37	7593.160	2.0	50950.420	3.0
230.2478	28.01	-.39	32499.530	4.5	75917.630	3.5	230.5732	26.02	-4.92	158562.700	4.0	201919.530	4.0
230.2512	25.02	-3.39	88880.080	2.5	132297.550	2.5	230.5744	20.02	-4.53	328090.990	2.0	371447.580	1.0
230.2540	44.00	.05	1129.205	0.0	44559.504	0.0	230.5816	8.01	-3.52	232753.860	3.5	276109.100	4.5
2													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
230.6460	51.00	-1.13	16292.819	0.0	59649.305	0.0
230.6512	10.01	-2.79	280173.010	4.5	323515.170	3.5
230.6540	75.00	-1.72	0.000	0.0	43354.982	0.0
230.6579	26.02	-1.95	73727.640	2.0	117068.560	3.0
230.6600	74.00	-1.54	2903.671	0.0	46257.525	0.0
230.6601	10.01	-3.96	280173.010	4.5	323513.500	3.5
230.6610	48.00	-1.33	30488.543	0.0	73842.209	0.0
230.6619	25.02	-3.04	91906.100	2.5	135246.270	2.5
230.6626	10.01	-1.72	280173.010	4.5	323513.030	4.5
230.6649	26.02	-2.41	88923.070	6.0	132262.660	6.0
230.6744	25.01	-3.70	38806.530	4.0	82144.340	3.0
230.6778	26.02	-2.55	145618.390	2.0	188955.560	3.0
230.6813	7.01	-1.57	186570.980	3.0	229907.500	4.0
230.6821	24.01	-1.66	20512.750	5.5	63849.110	5.5
230.6836	25.01	-2.59	37811.570	1.0	81147.650	2.0
230.6855	24.01	-4.68	31168.780	3.5	74504.510	4.5
230.6860	14.02	-2.63	201597.730	1.0	244933.360	1.0
230.6889	14.02	-2.15	201598.280	2.0	244933.360	1.0
230.6934	25.00	-2.71	23296.670	3.5	66630.920	4.5
230.6948	24.01	-5.65	21822.860	2.5	65156.840	2.5
230.6970	42.01	-1.47	15324.929	0.0	58671.830	0.0
230.7022	30.02	-1.95	217655.800	3.0	260988.400	4.0
230.7033	26.02	-2.98	114351.920	3.0	157684.300	2.0
230.7043	18.01	-3.63	163299.470	2.5	206631.670	2.5
230.7052	24.01	-5.58	21824.820	1.5	65156.840	2.5
230.7107	14.02	-2.03	201597.730	1.0	244928.720	0.0
230.7108	23.02	-1.06	98383.530	2.5	141714.500	2.5
230.7140	25.01	-4.13	38901.800	4.0	82232.180	5.0
230.7155	26.01	-1.00	50157.610	4.5	93487.710	3.5
230.7174	26.02	-3.64	158562.700	4.0	201892.440	5.0
230.7178	25.01	-2.98	38806.530	4.0	82136.200	4.0
230.7199	24.01	-1.50	20519.850	4.5	63849.110	5.5
230.7228	25.02	-2.98	132937.060	5	176265.780	1.5
230.7248	25.02	-1.88	94906.450	5	138234.790	1.5
230.7270	77.00	-1.25	7017.204	0.0	50358.469	0.0
230.7271	18.01	-1.39	161089.310	5	204417.230	1.5
230.7309	27.02	-3.89	82363.300	4.5	125690.500	3.5
230.7312	26.01	-1.48	50157.610	4.5	93484.750	4.5
230.7336	28.01	-1.16	72985.650	1.5	116312.340	1.5
230.7353	28.00	-1.04	879.813	2.0	44206.185	3.0
230.7368	30.02	-2.30	217655.800	3.0	260981.900	3.0
230.7376	26.00	-6.53	0.000	4.0	43325.946	3.0
230.7462	18.01	-2.18	163299.470	2.5	206623.800	3.5
230.7512	25.01	-4.08	34761.810	5.0	78085.200	5.0
230.7562	24.01	-3.80	31531.620	1.5	74854.080	5
230.7564	24.01	-1.26	48632.360	3.5	91954.780	2.5
230.7602	30.02	-1.10	214357.000	1.0	257678.700	2.0
230.7622	26.02	-2.88	139509.440	5.0	182830.760	6.0
230.7645	24.00	-4.46	20520.920	3.0	63841.810	4.0
230.7676	8.01	-3.82	232745.980	1.5	276066.300	1.5
230.7676	8.01	-3.52	232745.980	1.5	276066.300	2.5
230.7693	9.04	-1.56	816858.000	3.5	860178.000	2.5
230.7719	26.01	-1.64	50076.100	1.5	93395.600	2.5
230.7725	24.00	-3.59	7927.470	2.0	51246.870	1.0
230.7757	8.01	-3.76	232747.510	2.5	276066.300	2.5
230.7762	27.02	-2.92	82920.700	3.5	126239.400	4.5
230.7770	24.01	-2.43	31117.590	2.5	74436.140	2.5
230.7779	28.01	-1.86	24835.930	5	68154.310	1.5
230.7793	24.00	-4.84	20523.690	4.0	63841.810	4.0
230.7836	27.02	-1.26	128423.100	1.5	171740.400	1.5
230.7836	27.02	-1.26	128423.100	1.5	171740.400	1.5
230.7836	27.02	-4.92	128423.100	1.5	171740.400	1.5
230.7852	27.01	-1.49	18031.500	2.0	61348.500	1.5
230.7859	14.01	-1.99	79338.760	1.5	122655.630	2.5
230.7863	27.01	-1.53	4028.900	4.0	47345.700	5.0
230.7888	14.02	-1.51	214532.170	1.0	257848.500	2.0
230.7934	24.01	-4.72	31168.780	3.5	74484.250	2.5
230.7954	26.01	-5.35	25787.600	1.5	69102.690	2.5
230.7980	28.02	-3.42	140544.700	3.0	183859.300	3.0
230.7984	28.01	-2.62	71770.830	2.5	115085.360	3.5
230.8002	23.01	-6.37	20343.000	2.0	63657.200	2.0
230.8040	78.00	-1.07	6533.259	0.0	49860.064	0.0
230.8090	23.02	-2.26	103034.650	4.5	146347.200	5.5
230.8096	8.01	-3.07	232753.860	3.5	276066.300	2.5
230.8099	25.02	-1.97	327962.110	1.0	371274.480	2.0
230.8117	25.02	-3.84	135246.270	2.5	178558.300	1.5
230.8172	25.02	-1.04	90440.500	4.5	133751.500	3.5
230.8183	24.02	-2.07	66222.700	5.0	109533.500	4.0
230.8280	28.01	-1.29	57080.550	3.5	100389.520	2.5
230.8305	27.02	-2.02	86283.800	4.5	129592.300	4.5
230.8412	27.01	-1.18	41737.800	2.0	85044.300	3.0
230.8412	27.02	-4.14	128423.100	1.5	171729.600	2.5
230.8425	24.01	-2.86	31117.590	2.5	74423.840	3.5
230.8425	25.02	-3.04	135510.700	2.5	178816.960	2.5
230.8460	73.01	-1.50	5565.369	0.0	48884.292	0.0
230.8519	28.01	-1.33	29070.930	1.5	72375.420	1.5
230.8519	9.03	-1.15	538195.000	0.0	581499.500	1.0
230.8524	14.01	-1.77	81191.600	5	124496.000	1.5
230.8556	28.02	-3.46	71067.000	3.0	114370.800	2.0
230.8694	26.02	-3.62	139509.440	5.0	182810.660	5.0
230.8732	26.02	-4.85	158729.890	3.0	202030.380	3.0
230.8740	14.01	-2.13	79355.280	2.5	122655.630	2.5
230.8747	14.01	-1.83	79355.280	2.5	122655.510	3.5
230.8771	26.01	-1.39	50187.950	3.5	93487.710	3.5
230.8772	25.01	-1.39	37847.900	2.0	81147.650	2.0
230.8828	23.01	-4.85	11514.760	1.0	54813.450	0.0
230.8867	25.02	-1.84	91948.300	3.5	135246.270	2.5
230.8896	22.00	-2.58	170.132	3.0	43467.550	2.0
230.8919	24.00	-5.11	7593.160	2.0	50890.150	2.0
230.8929	26.01	-1.49	50187.950	3.5	93484.750	4.5
230.8930	77.00	-1.33	6291.287	0.0	49601.392	0.0
230.8945	25.01	-1.93	37851.150	3.0	81147.650	2.0
230.8958	8.02	-2.69	327227.940	1.0	370524.200	2.0
230.8964	25.02	-2.48	90440.500	4.5	133736.640	5.5
230.8988	23.03	-3.00	223304.600	4.0	266600.300	5.0
230.9000	26.00	-1.34	888.132	1.0	44183.607	2.0
230.9003	23.01	-4.50	32420.040	0.0	75715.450	1.0
230.9008	27.00	-1.02	0.000	4.5	43295.320	4.5
230.9018	26.01	-8.63	23317.600	2.5	66612.740	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
230.9040	74.00	-1.06	6129.972	0.0	49438.013	0.0
230.9047	25.00	-4.22	23549.200	2.5	66843.790	1.5
230.9047	26.02	-3.18	136464.900	1.0	179759.490	2.0
230.9064	26.01	-3.18	22637.190	4.5	65931.460	3.5
230.9072	23.01	-1.82	9097.810	4.0	52391.940	3.0
230.9097	18.01	-2.40	147875.860	2.5	191169.520	1.5
230.9098	25.02	-4.17	97000.800	4.5	140294.440	3.5
230.9125	25.02	-3.49	135858.960	2.5	179152.090	3.5
230.9151	18.01	-1.69	158428.030	5	201720.670	1.5
230.9260	7.01	-2.26	186652.490	4.0	229943.100	4.0
230.9294	26.02	-3.61	82382.870	3.0	125672.830	2.0
230.9344	25.00	-3.36	23719.520	1.5	67008.540	2.5
230.9375	25.00	-3.73	23549.200	2.5	66837.640	2.5
230.9429	22.00	-3.83	386.874	4.0	43674.310	4.0
230.9498	29.01	-1.28	73101.870	1.0	116388.000	2.0
230.9521	25.02	-1.19	97271.760	5.5	140557.460	4.5
230.9527	7.01	-1.61	186652.490	4.0	229938.100	5.0
230.9558	24.01	-3.69	31219.490	4.5	74504.510	4.5
230.9560	26.01	-1.16	65363.660	5.5	108648.640	4.5
230.9590	26.02	-4.44	93512.640	4.0	136797.050	3.0
230.9603	28.01	-3.47	92792.080	3.5	136076.260	4.5
230.9701	25.02	-2.57	135869.760	3.5	179152.090	3.5
230.9730	24.02	-2.64	115181.800	2.0	158463.600	3.0
230.9784	26.02	-3.47	136612.780	4.0	179893.560	5.0
230.9820	45.00	-4.49	3387.616	0.0	46681.033	0.0
230.9826	25.02	-1.77	97000.800	4.5	140280.800	4.5
230.9842	8.01	-2.29	206971.300	2.5	250251.000	1.5
230.9843	23.02	-1.64	56160.420	2.5	99440.100	2.5
230.9859	18.01	-4.07	147227.970	5	190507.360	1.5
230.9861	24.01	-4.76	30156.940	3.5	73436.270	2.5
230.9895	8.01	-2.57	206972.300	1.5	250251.000	5
230.9895	8.01	-3.34	206972.300	1.5	250251.000	1.5
230.9916	26.01	-2.21	42401.330	1.5	85679.640	2.5
230.9925	25.02	-2.78	94850.660	1.5	138128.800	1.5
230.9971	22.01	-2.64	9850.900	5	53128.170	1.5
230.9976	11.02	-1.29	373633.000	1.5	416910.200	4.5
231.0031	28.01	-3.02	72985.650	1.5	116261.810	5
231.0104	26.01	-1.26	50212.930	2.5	93487.710	3.5
231.0159	14.02	-2.33	201597.730	1.0	244871.470	1.0
231.0167	25.03	-4.00	152700.500	4.0	195974.100	5.0
231.0189	14.02	-1.85	201598.280	2.0	244871.470	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
231.1630	10.01	-2.26	280268.960	2.5	323515.170	3.5	231.3938	23.01	-3.50	11514.760	1.0	54717.850	1.0
231.1689	25.02	-2.78	89052.440	3.5	132297.550	2.5	231.3970	26.01	-2.69	22810.330	3.5	66012.830	4.5
231.1720	10.01	-1.26	280268.960	2.5	323513.500	3.5	231.3978	28.00	.46	2216.519	2.0	45418.858	2.0
231.1726	14.01	-1.52	81251.580	1.5	124496.000	2.5	231.3996	25.02	-2.51	94397.200	3.5	137599.200	3.5
231.1726	14.01	-2.47	81251.580	1.5	124496.000	1.5	231.4023	27.02	-4.25	130407.800	2.5	173609.300	1.5
231.1727	25.01	-3.58	39826.570	1.0	83070.970	2.0	231.4023	27.02	-4.25	130407.800	2.5	173609.300	1.5
231.1814	25.01	-2.97	37811.570	1.0	81054.350	2.0	231.4035	24.01	-3.17	31117.590	2.5	74318.860	2.5
231.1829	26.01	-3.05	31364.470	1.5	74606.970	2.5	231.4050	25.02	-.98	94707.200	4.5	137908.200	5.5
231.1834	9.03	-.59	417143.400	2.0	460385.800	1.0	231.4057	23.01	-3.75	11514.760	1.0	54715.630	2.0
231.1835	9.01	-2.48	243458.900	1.0	286701.280	2.0	231.4066	27.01	.31	4950.000	2.0	48150.700	3.0
231.1914	23.01	-3.71	8841.970	3.0	52082.880	4.0	231.4078	25.01	-2.01	37851.150	3.0	81051.620	3.0
231.1994	25.02	-2.81	133455.640	5.5	176695.060	4.5	231.4085	9.02	-1.92	415394.510	1.5	458594.860	2.5
231.2021	26.01	-1.34	18886.750	.5	62125.660	1.5	231.4111	23.01	-4.17	20617.050	2.0	63816.900	3.0
231.2043	9.01	-2.25	243462.780	2.0	286701.280	2.0	231.4176	23.02	-.41	44345.820	3.5	87544.460	4.5
231.2044	28.01	-3.11	51045.460	4.5	94263.940	4.5	231.4180	74.00	-.26	6129.972	0.0	49341.822	0.0
231.2046	25.01	-4.41	36274.290	2.0	79512.730	3.0	231.4195	27.02	-1.18	83789.300	.5	126987.600	1.5
231.2059	9.03	-1.75	538261.300	1.0	581499.500	1.0	231.4200	39.00	-.33	7017.204	0.0	50228.681	0.0
231.2074	20.02	-2.88	247696.390	1.0	290934.300	0.0	231.4210	25.01	-4.18	38901.800	4.0	82099.820	4.0
231.2083	25.01	-1.79	41190.470	6.0	84428.210	5.0	231.4241	22.01	-1.21	9930.740	1.5	53128.170	1.5
231.2087	25.02	-3.12	94697.850	3.5	137935.530	4.5	231.4303	22.00	-2.70	386.874	4.0	43583.140	3.0
231.2097	18.02	-1.11	188517.320	1.0	231754.800	0.0	231.4312	25.01	-4.13	44521.520	4.0	87717.620	3.0
231.2106	7.01	-2.02	186511.580	2.0	229748.900	3.0	231.4340	14.01	-3.18	114265.700	1.5	157461.300	1.5
231.2109	26.00	-4.18	7376.762	4.0	50614.020	4.0	231.4430	23.01	-6.85	20622.990	3.0	63816.900	3.0
231.2160	17.02	-4.10	174613.900	2.5	217850.200	2.5	231.4432	24.01	-3.16	20512.750	5.5	63706.620	4.5
231.2190	24.01	-4.42	31083.110	1.5	74318.860	2.5	231.4459	24.00	-6.90	12560.933	3.0	55754.290	2.0
231.2214	13.01	-1.69	105438.400	1.0	148673.700	1.0	231.4569	24.00	-5.56	8095.210	3.0	51286.520	2.0
231.2223	26.01	-2.15	20805.830	4.5	64040.960	3.5	231.4600	22.01	-2.01	9930.740	1.5	53121.480	.5
231.2238	28.01	-.42	23796.180	1.5	67031.020	.5	231.4619	24.01	-3.24	31083.110	1.5	74273.480	1.5
231.2291	25.00	-1.65	23549.200	2.5	66783.050	3.5	231.4629	24.02	.29	56650.500	2.0	99840.700	3.0
231.2297	23.01	-2.78	11908.270	2.0	55142.010	3.0	231.4633	11.02	-1.73	417415.500	1.5	460605.600	1.5
231.2317	25.02	-2.04	133736.640	5.5	176970.010	5.5	231.4645	27.01	.35	22414.500	3.0	65604.400	3.0
231.2337	29.02	-2.72	85446.400	1.5	128679.400	2.5	231.4659	26.02	-4.32	158729.890	3.0	201919.530	4.0
231.2340	28.00	.17	1332.153	3.0	44565.100	3.0	231.4703	15.01	-.75	87805.000	2.0	130993.800	3.0
231.2348	9.03	-1.15	538261.300	1.0	581494.100	0.0	231.4713	25.00	-3.18	23549.200	2.5	66737.820	3.5
231.2390	9.01	-2.10	243469.270	3.0	286701.280	2.0	231.4713	26.01	-.91	49506.990	1.5	92695.620	2.5
231.2491	13.00	-.58	29020.410	.5	72250.530	1.5	231.4726	25.02	-2.78	133276.400	4.5	176464.780	3.5
231.2509	26.00	-2.73	12560.933	3.0	55790.720	3.0	231.4731	24.01	-.60	20518.330	3.5	63706.620	4.5
231.2572	27.01	-.02	18031.500	2.0	61260.100	2.0	231.4746	27.02	-3.60	83799.600	2.5	126987.600	1.5
231.2590	26.02	-3.44	136532.450	2.0	179760.720	3.0	231.4751	28.01	-3.73	56371.410	3.5	99559.330	2.5
231.2597	12.01	-3.54	69804.950	.5	113033.090	1.5	231.4759	8.02	-1.29	327227.940	1.0	370415.700	1.0
231.2600	73.01	.60	967.890	0.0	44209.263	0.0	231.4812	24.01	-1.58	20519.850	4.5	63706.620	4.5
231.2656	26.02	-2.19	82410.940	2.0	125637.980	3.0	231.4831	24.01	-4.68	31531.620	1.5	74718.050	1.5
231.2656	26.02	-2.84	136532.450	2.0	179759.490	2.0	231.4871	26.01	-.12	50142.930	2.5	93328.600	1.5
231.2685	25.01	-1.19	30684.810	1.0	73911.310	1.0	231.4881	26.02	-3.39	139625.170	4.0	182810.660	5.0
231.2714	25.00	-2.10	23796.670	3.5	66522.620	4.5	231.4882	26.02	-3.07	136008.740	3.0	179194.220	4.0
231.2726	26.01	-2.48	42237.050	3.5	85462.780	3.5	231.4956	25.01	-3.20	36274.290	2.0	79458.380	2.0
231.2747	25.01	-2.09	49291.310	3.0	92516.650	4.0	231.4969	18.01	-.44	158167.710	1.5	201351.550	2.5
231.2749	12.01	-3.84	69804.950	.5	113030.250	.5	231.4982	27.01	.16	5204.500	1.0	48388.100	2.0
231.2817	26.02	-2.36	93388.750	4.0	136612.780	4.0	231.4984	13.00	-1.08	29066.960	1.5	72250.530	1.5
231.2824	10.01	-1.84	280947.100	1.5	324170.990	2.5	231.4988	20.02	-3.43	328090.990	2.0	371274.480	2.0
231.2825	25.01	-2.29	41204.340	5.0	84428.210	5.0	231.4996	23.02	-2.15	56256.750	1.5	99440.100	2.5
231.2840	48.01	1.30	46378.074	0.0	89614.960	0.0	231.4999	25.02	-3.26	97023.800	3.5	140207.090	2.5
231.2872	30.02	-2.28	217655.800	3.0	260878.800	3.0	231.5020	74.01	.38	3145.643	0.0	46341.814	0.0
231.2907	25.02	-2.47	94906.450	.5	138128.800	1.5	231.5032	26.01	-.56	50212.930	2.5	93395.600	2.5
231.2917	28.01	.58	32499.530	.45	75721.680	5.5	231.5062	28.01	-2.59	72985.650	1.5	116167.760	1.5
231.2970	75.00	-.03	14921.641	0.0	58156.097	0.0	231.5097	10.01	-1.63	280989.530	1.5	324170.990	2.5
231.2979	27.02	-4.94	126549.300	3.5	169770.300	2.5	231.5131	29.01	-3.80	85388.770	2.0	128569.600	2.0
231.3015	26.02	-2.89	93392.450	3.0	136612.780	4.0	231.5244	7.01	-1.04	186570.980	3.0	229749.700	4.0
231.3087	26.01	-2.07	31387.980	2.5	74606.970	2.5	231.5255	23.02	-3.74	102961.280	3.5	146139.800	2.5
231.3105	26.00	-1.12	704.003	2.0	43922.652	3.0	231.5285	26.02	-2.36	82494.880	1.0	125672.830	2.0
231.3124	14.01	-2.78	114265.700	1.5	157484.000	.5	231.5287	7.01	-2.16	186570.980	3.0	229748.900	3.0
231.3137	26.02	-3.14	136464.900	1.0	179682.940	1.0	231.5300	24.01	-3.97	39742.360	2.5	82920.030	1.5
231.3173	26.01	-3.11	23031.300	1.5	66248.670	.5	231.5304	26.01	-1.26	43238.610	2.5	86416.220	3.5
231.3190	74.00	-.65	0.000	0.0	43230.344	0.0	231.5309	18.01	-3.05	158167.710	1.5	201345.220	1.5
231.3196	26.02	-2.29	135990.620	4.0	179207.570	5.0	231.5380	77.00	-.67	0.000	0.0	43189.455	0.0
231.3216	26.01	-3.17	41968.110	5.5	85184.690	4.5	231.5456	25.01	-2.86	34910.430	4.0	78085.200	5.0
231.3270	26.02	-2.45	92523.910	5.0	135739.470	6.0	231.5460	73.01	.59	967.890	0.0	44155.853	0.0
231.3271	26.00	-4.48	7985.783	2.0	51201.330	2.0	231.5534	8.02	-.50	327350.900	3.0	370524.200	2.0
231.3273	27.02	-1.14	128524.900	2.5	171740.400	1.5	231.5551	26.00	-7.65	7728.058	3.0	50901.060	2.0
231.3273	27.02	-1.14	128524.900	2.5	171740.400	1.5	231.5560	28.01	-.58	57420.160	2.5	100592.980	3.5
231.3281	25.01	-2.97	38901.800	4.0	82117.160	5.0	231.5626	28.01	-1.78	71770.830	2.5	114942.420	1.5
231.3301	26.01	-.73	30388.550	4.5	73603.530	5.5	231.5637	28.01	-3.91	51557.850	3.5	94729.250	2.5
231.3343	27.02	-1.69	83773.400	1.5	126987.600	1.5	231.5644	11.01	-2.11	265693.290	1.0	308864.540	0.0
231.3461	26.02	-4.40	136464.900	1.0	179676.890	2.0	231.5650	25.01	-2.80	43131.400	2.0	86302.550	3.0
231.3493	26.02	-3.14	92523.910	5.0	135735.310	5.0	231.5681	26.02	-2.84	73727.640	2.0	116898.220	2.0
231.3526	13.00	-.59	29066.660	1.5	72277.750	.5	231.5705	29.01	-2.55	85388.770	2.0	128558.900	3.0
231.3530	25.02	-.49	91906.100	2.5	135116.800	1.5	231.5718	26.02	-4.03	136008.740	3.0	179178.620	3.0
231.3537	10.01	-3.12	280947.100	1.5	324157.680	2.5	231.5776	27.00	-3.29	7442.410	3.5	50611.220	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
231.6896	26.02	-4.31	136612.780	4.0	179760.720	3.0
231.6912	23.02	-3.42	98383.530	2.5	141531.170	1.5
231.6941	25.02	-1.82	100001.300	2.5	143148.000	1.5
231.6973	24.02	-3.06	115181.800	2.0	158328.300	2.0
231.7006	18.02	-4.09	209127.040	1.0	252272.920	1.0
231.7016	14.01	-4.31	114265.700	1.5	157411.400	2.5
231.7024	22.01	-2.69	9975.920	1.5	53121.480	0.5
231.7039	7.01	-1.03	166678.640	3.0	209823.910	4.0
231.7043	28.01	-1.09	93528.440	3.5	136673.640	4.5
231.7043	26.02	-2.55	136612.780	4.0	179757.980	4.0
231.7043	15.01	-1.01	87805.000	2.0	130950.200	2.0
231.7051	10.01	-2.14	281025.940	2.5	324170.990	2.5
231.7061	10.01	-2.81	281025.940	2.5	324170.810	3.5
231.7071	27.01	-1.18	22009.230	4.0	65153.900	4.0
231.7084	26.02	-3.89	136532.450	2.0	179676.890	2.0
231.7140	28.01	-1.27	55417.930	3.5	98561.220	2.5
231.7161	28.00	-2.8	1332.153	3.0	44475.158	2.0
231.7161	26.01	-5.19	20805.830	4.5	63948.840	4.5
231.7230	50.00	-0.72	8549.697	0.0	51704.671	0.0
231.7264	26.02	-4.77	144968.500	4.0	188109.580	3.0
231.7322	26.02	-4.98	93392.450	3.0	136532.450	2.0
231.7376	28.02	-2.69	79143.300	2.0	122282.300	2.0
231.7376	26.01	-2.02	22939.350	2.5	66078.340	2.5
231.7402	8.02	-4.73	32727.180	2.0	370415.700	1.0
231.7419	23.02	-1.62	63303.120	4.5	106441.310	4.5
231.7458	26.00	-4.76	0.000	4.0	43137.472	3.0
231.7473	18.02	-0.65	209151.820	2.0	252289.020	3.0
231.7481	13.00	-0.54	29066.960	1.5	72204.000	2.5
231.7505	27.02	-3.19	128804.900	1.5	171941.500	0.5
231.7505	27.02	-3.19	128804.900	1.5	171941.500	0.5
231.7511	18.01	-2.32	147875.860	2.5	191012.350	1.5
231.7520	27.00	-1.85	7442.410	3.5	50578.730	3.5
231.7563	23.02	-4.98	56669.050	1.5	99804.570	2.5
231.7570	26.02	-2.73	136612.780	4.0	179748.170	5.0
231.7571	10.01	-1.11	281025.940	2.5	324161.310	3.5
231.7583	25.02	-3.64	91906.100	2.5	135041.250	1.5
231.7588	23.01	-4.05	20522.140	1.0	63657.200	2.0
231.7591	29.02	-3.64	80305.200	1.5	123440.200	2.5
231.7599	28.01	-2.92	56424.490	1.5	99559.330	2.5
231.7633	23.02	-4.16	98062.220	1.5	141196.430	2.5
231.7639	30.02	-4.23	214357.000	1.0	257491.100	0.0
231.7640	14.01	-2.58	114327.210	2.5	157461.300	1.5
231.7662	26.01	-2.53	31364.470	1.5	74498.150	1.5
231.7665	8.01	-4.04	232745.980	1.5	275879.600	2.5
231.7693	24.01	-4.61	31351.150	2.5	74484.250	2.5
231.7744	18.01	-1.72	148842.370	2.5	191974.530	1.5
231.7747	8.01	-4.17	232747.510	2.5	275879.600	2.5
231.7747	8.01	-3.31	232747.510	2.5	275879.600	3.5
231.7765	23.02	-3.87	98399.420	0.5	141531.170	1.5
231.7766	10.01	-3.86	281025.940	2.5	324157.680	2.5
231.7780	10.01	-3.62	281025.940	2.5	324157.430	1.5
231.7800	44.00	-2.22	1129.205	0.0	44273.566	0.0
231.7811	8.01	-2.86	232480.100	0.5	275611.000	0.5
231.7811	8.01	-3.16	232480.100	0.5	275611.000	1.5
231.7820	57.01	-0.31	18793.202	0.0	61937.191	0.0
231.7876	26.01	-2.60	31368.450	1.5	74498.150	1.5
231.7897	26.00	-1.05	12968.552	2.0	56097.850	3.0
231.7931	24.01	-4.93	30307.600	1.5	73436.270	2.5
231.7970	20.02	-1.33	347344.370	5.0	390472.320	5.0
231.7971	26.01	-1.64	42334.860	2.5	85462.780	3.5
231.7974	25.01	-2.17	39808.140	3.0	82936.010	3.0
231.7998	20.02	-3.06	347344.370	5.0	390471.790	4.0
231.8040	18.02	-0.39	209127.040	1.0	252253.690	2.0
231.8061	23.02	-0.52	63315.050	3.5	106441.310	4.5
231.8077	26.02	-1.80	73849.100	1.0	116975.050	2.0
231.8089	8.01	-3.41	232753.860	3.5	275879.600	2.5
231.8089	8.01	-2.06	232753.860	3.5	275879.600	3.5
231.8129	12.02	-2.89	431530.000	1.0	474655.000	2.0
231.8135	24.00	-5.46	0.000	3.0	43124.880	2.0
231.8140	25.02	-2.86	135692.170	3.5	178816.960	2.5
231.8150	25.02	-3.32	100085.200	1.5	143209.800	2.5
231.8168	25.00	-2.83	23719.520	1.5	66843.790	1.5
231.8173	23.02	-3.83	98383.530	2.5	141507.700	3.5
231.8194	26.01	-1.69	31483.200	3.5	74606.970	2.5
231.8256	25.01	-1.52	39813.380	2.0	82936.010	3.0
231.8290	78.00	-0.61	806.575	0.0	43941.817	0.0
231.8336	26.01	-1.63	22810.330	3.5	65931.460	3.5
231.8338	18.02	-1.27	209151.820	2.0	252272.920	1.0
231.8341	26.01	-0.84	25981.650	3.5	69102.690	2.5
231.8360	45.00	-0.52	5646.026	0.0	48779.966	0.0
231.8391	26.01	-2.93	21711.890	3.5	64832.000	4.5
231.8423	26.02	-1.77	93412.930	2.0	136532.450	2.0
231.8429	27.01	-0.51	18338.500	1.0	61457.900	0.0
231.8430	9.03	-1.06	538397.200	2.0	581516.600	2.0
231.8439	10.01	-3.09	279218.660	2.5	322337.880	2.5
231.8466	10.01	-1.79	279218.660	2.5	322337.380	3.5
231.8498	25.00	-1.79	23719.520	1.5	66837.640	2.5
231.8499	24.01	-1.81	34659.480	0.5	77777.580	0.5
231.8508	28.01	-4.42	25036.380	2.5	68154.310	1.5
231.8538	26.01	-1.55	21308.080	1.5	64425.460	2.5
231.8539	24.01	-4.23	38315.000	2.5	81432.360	3.5
231.8541	26.01	-2.30	36126.410	1.5	79243.730	1.5
231.8630	26.01	-0.86	50212.930	2.5	93328.600	1.5
231.8648	26.01	-1.66	49101.090	0.5	92216.420	1.5
231.8771	28.00	-1.74	3409.925	2.0	46522.965	2.0
231.8771	25.01	-2.90	44745.460	2.0	87858.510	2.0
231.8773	24.01	-1.05	32603.730	2.5	75716.740	3.5
231.8773	22.01	-4.13	9518.050	2.5	52631.070	3.5
231.8804	25.01	-3.95	39826.570	1.0	82939.000	1.0
231.8833	27.02	-2.44	83938.900	3.5	127050.800	4.5
231.8920	25.01	-0.71	27546.900	6.0	70657.180	5.0
231.8926	26.01	-3.08	31387.980	2.5	74498.150	1.5
231.8936	18.02	-1.31	188517.320	1.0	231627.300	1.0
231.8940	74.00	-0.11	15002.299	0.0	58125.450	0.0
231.8954	25.01	-3.44	39808.140	3.0	82917.780	2.0
231.8994	26.00	-5.91	0.000	4.0	43108.899	4.0
231.8995	23.02	-0.32	44110.040	2.5	87218.920	3.5
231.9005	15.01	-2.89	87805.000	2.0	130913.700	3.0
231.9056	13.00	-0.55	29142.780	2.5	72250.530	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
231.9080	24.02	.40	56992.200	3.0	100099.500	4.0
231.9093	25.02	-3.07	135709.900	2.5	178816.960	2.5
231.9095	8.01	-2.97	232959.260	3.5	276066.300	2.5
231.9100	45.00	-.33	5646.026	0.0	48766.202	0.0
231.9120	18.02	-.63	209166.350	0.0	252272.920	1.0
231.9156	27.00	-4.57	816.000	3.5	43921.890	2.5
231.9160	73.01	1.34	12340.601	0.0	55459.661	0.0
231.9190	75.00	-.03	16212.162	0.0	59330.665	0.0
231.9223	26.02	-1.06	77075.300	1.0	120179.950	0.0
231.9239	24.01	-3.13	30307.600	1.5	73411.940	1.5
231.9255	28.01	-.89	71770.830	2.5	114874.880	2.5
231.9288	22.01	-2.25	10024.740	2.5	53128.170	1.5
231.9319	25.01	-1.81	41204.340	5.0	84307.200	4.0
231.9349	9.03	-.91	538397.200	2.0	581499.500	1.0
231.9372	18.02	-.09	209151.820	2.0	252253.690	2.0
231.9396	24.01	-.43	21822.860	2.5	64924.300	3.5
231.9440	57.01	-.30	2581.041	0.0	45694.896	0.0
231.9449	25.01	-3.19	30684.810	1.0	73785.250	2.0
231.9466	26.02	-1.08	93512.640	4.0	136612.780	4.0
231.9523	24.01	-3.64	30307.600	1.5	73406.680	.5
231.9526	24.01	-3.29	47751.980	5.5	90851.000	4.5
231.9538	28.02	-2.59	75646.900	4.0	118745.700	3.0
231.9539	8.02	-1.07	327227.940	1.0	370326.700	0.0
231.9553	25.00	-3.25	23296.670	3.5	66395.190	2.5
231.9608	27.02	-.97	83773.400	1.5	126870.900	2.5
231.9615	18.01	-4.89	145668.800	1.5	188766.150	2.5
231.9623	7.01	-2.72	186652.490	4.0	229749.700	4.0
231.9666	7.01	-3.87	186652.490	4.0	229748.900	3.0
231.9688	28.01	-4.03	66579.710	1.5	109675.720	.5
231.9699	27.02	-2.03	129706.900	3.5	172802.700	2.5
231.9704	25.02	-2.09	100001.300	2.5	143097.000	3.5
231.9728	22.01	-5.26	9363.710	.5	52458.980	1.5
231.9751	28.01	-.27	25036.380	2.5	68131.210	3.5
231.9780	25.02	-2.77	100054.100	.5	143148.400	1.5
231.9796	27.02	-3.80	55729.200	3.5	98823.200	2.5
231.9807	8.01	-3.25	232747.510	2.5	275841.300	3.5
231.9814	24.00	-4.53	8307.570	4.0	51401.240	5.0
231.9857	25.01	-3.76	55371.300	3.0	98464.160	4.0
231.9877	27.02	-1.12	83799.600	2.5	126892.100	3.5
231.9901	25.01	-4.37	38901.800	4.0	81993.850	4.0
231.9911	25.01	-4.31	55371.300	3.0	98463.160	3.0
231.9946	25.01	-1.62	39826.570	1.0	82917.780	2.0
231.9946	7.01	-3.75	166582.450	2.0	209673.650	2.0
232.0019	26.01	-2.74	43620.980	1.5	86710.840	1.5
232.0031	28.00	.88	0.000	4.0	43089.636	5.0
232.0075	40.02	-2.33	347383.510	4.0	390472.320	5.0
232.0088	24.01	-.68	20512.620	2.5	63601.200	3.5
232.0100	26.01	-8.56	18886.750	.5	61975.110	1.5
232.0104	20.02	-1.36	347383.510	4.0	390471.790	4.0
232.0128	26.02	-3.18	89697.520	3.0	132785.360	4.0
232.0149	8.01	-2.88	232753.860	3.5	275841.300	3.5
232.0149	8.01	-1.51	232753.860	3.5	275841.300	4.5
232.0160	75.00	.21	16212.162	0.0	59312.638	0.0
232.0214	25.01	-1.52	27075.950	5.0	70657.180	5.0
232.0259	14.01	-2.28	81191.600	.5	124277.000	.5
232.0267	18.02	-.73	242923.960	1.0	286009.210	2.0
232.0281	24.01	-1.78	31351.150	2.5	74436.140	2.5
232.0291	27.01	.15	21624.400	5.0	64709.200	5.0
232.0302	23.03	-2.39	222794.600	2.0	265879.200	1.0
232.0302	23.03	-3.44	222794.600	2.0	265879.200	2.0
232.0302	17.01	-2.17	131768.000	2.0	174852.600	3.0
232.0317	23.02	-4.00	109854.870	3.5	152939.200	2.5
232.0318	29.02	-2.24	78779.400	1.5	121863.700	1.5
232.0318	8.01	-3.16	232526.700	1.5	275611.000	.5
232.0318	8.01	-2.46	232526.700	1.5	275611.000	1.5
232.0324	14.01	-3.05	114327.210	2.5	157411.400	2.5
232.0349	26.02	-3.25	79860.420	5.0	122944.150	4.0
232.0359	26.00	-.96	415.932	3.0	43499.485	4.0
232.0370	8.01	-1.81	232796.270	2.5	275879.600	2.5
232.0370	8.01	-3.09	232796.270	2.5	275879.600	3.5
232.0395	24.01	-1.70	20518.330	3.5	63601.200	3.5
232.0418	27.00	-3.85	4142.660	3.5	47225.110	3.5
232.0422	25.01	-.02	38720.200	6.0	81802.580	6.0
232.0424	25.01	-3.71	32836.400	1.0	75918.730	2.0
232.0477	24.01	-3.16	20519.850	4.5	63601.200	3.5
232.0535	25.01	-4.56	34761.810	5.0	77842.090	6.0
232.0548	26.00	-5.15	7376.762	4.0	50456.790	3.0
232.0564	26.00	-3.26	17726.985	2.0	60806.720	3.0
232.0586	24.00	-5.62	7810.820	1.0	50890.150	2.0
232.0712	25.01	-4.34	43131.400	2.0	86208.400	1.0
232.0740	23.01	-5.22	20980.920	2.0	64057.390	3.0
232.0781	22.01	-4.28	9395.760	1.5	52471.480	2.5
232.0804	26.00	-5.43	7728.058	3.0	50803.350	2.0
232.0830	28.02	-2.17	97841.400	2.0	140916.200	2.0
232.0879	26.01	-.94	65556.340	4.5	108620.240	5.0
232.0880	25.01	-2.91	27583.300	4.0	70657.180	5.0
232.0911	27.00	-2.11	1406.840	2.5	44480.140	2.5
232.0933	25.02	-2.60	100054.100	.5	143127.000	.5
232.0944	24.01	-2.37	31351.150	2.5	74423.840	3.5
232.0966	23.01	-3.99	26839.820	3.0	69912.100	4.0
232.0981	27.02	-2.99	82920.700	3.5	125992.700	2.5
232.1011	28.01	-.59	56371.410	3.5	99442.860	4.5
232.1019	27.02	-1.85	83799.600	2.5	126870.900	2.5
232.1035	24.02	-2.69	115552.700	3.0	158623.700	4.0
232.1046	28.01	-.92	57420.160	2.5	100490.950	1.5
232.1059	26.01	-2.70	20805.830	4.5	63876.380	5.5
232.1094	26.01	-2.11	42114.790	4.5	85184.690	4.5
232.1110	24.00	-3.40	7593.160	2.0	50662.770	1.0
232.1140	72.01	-.02	4839.451	0.0	47921.730	0.0
232.1167	26.01	-1.11	65580.090	5.5	108648.640	6.5
232.1169	26.02	-4.59	88923.070	6.0	131991.580	7.0
232.1172	20.02	-2.83	347383.510	4.0	390451.970	3.0
232.1207	9.03	-.98	538597.800	3.0	581665.600	4.0
232.1217	20.02	-1.98	347344.370	5.0	390411.990	5.0
232.1239	20.02	-.17	347344.370	5.0	390411.580	6.0
232.1315	28.01	-2.08	71770.830	2.5	114836.630	3.5
232.1315	17.01	-2.51	131754.800	1.0	174820.600	2.0
232.1378	28.00	.16	2216.519	2.0	45281.152	3.0
232.1403	9.02	-4.64	418494.890	4.5	457959.070	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
232.1418	24.02	-2.93	70291.800	2.0	113355.700	2.0	232.3761	25.02	-3.31	133999.540	4.5	176970.010	5.5
232.1449	23.01	-3.57	19112.930	4.0	62176.240	4.0	232.3762	23.01	-5.17	19112.930	4.0	62133.390	3.0
232.1450	77.00	.07	7017.204	0.0	50093.729	0.0	232.3789	26.02	-1.75	105895.350	1.0	148915.300	1.0
232.1454	22.01	-4.93	9395.760	1.5	52458.980	1.5	232.3857	23.02	.41	56922.500	2.5	99941.200	3.5
232.1455	25.02	-2.84	100085.200	1.5	143148.400	1.5	232.3878	17.01	-3.03	131767.400	0.0	174785.700	1.0
232.1532	25.01	-2.49	32856.950	3.0	75918.730	2.0	232.3895	26.02	-2.39	136612.780	4.0	179630.770	4.0
232.1542	27.02	-4.28	128017.700	3.5	171079.300	3.5	232.3908	29.01	-2.31	71493.680	2.0	114511.440	1.0
232.1542	27.02	-4.28	128017.700	3.5	171079.300	3.5	232.3911	17.01	-4.92	131768.000	2.0	174785.700	1.0
232.1542	24.00	-2.64	7593.160	2.0	50654.760	2.0	232.3949	23.02	-3.67	102961.280	3.5	145978.270	2.5
232.1542	27.02	-4.15	128017.700	3.5	171079.300	3.5	232.3996	26.02	-2.37	88694.670	5.0	131710.790	5.0
232.1562	13.00	-6.18	29142.780	2.5	72204.000	2.5	232.4049	25.02	-1.96	90440.500	4.5	133455.640	5.5
232.1580	77.00	-6.37	2823.013	0.0	45897.126	0.0	232.4081	28.01	-3.68	53037.930	2.5	96052.480	2.5
232.1590	26.02	-1.85	82382.870	3.0	125443.580	4.0	232.4095	28.01	-7.70	79823.030	3.5	122837.330	4.5
232.1591	26.02	-3.94	136117.940	2.0	179178.620	3.0	232.4165	10.01	-2.07	279324.890	1.5	322337.880	2.5
232.1630	74.00	-4.24	3306.958	0.0	46380.144	0.0	232.4169	25.01	-3.72	39826.570	1.0	82839.490	0.0
232.1634	25.01	-4.37	32858.840	2.0	75918.730	2.0	232.4197	13.01	-6.68	95546.800	3.0	138559.200	4.0
232.1640	26.01	-7.59	23317.600	2.5	66377.370	3.5	232.4240	76.00	-3.34	0.000	0.0	43024.817	0.0
232.1642	25.00	-4.31	23296.670	3.5	66356.400	4.5	232.4268	27.02	-3.90	130183.800	3.5	173194.900	2.5
232.1664	7.01	-2.05	166678.640	3.0	209737.970	3.0	232.4268	27.02	-3.90	130183.800	3.5	173194.900	2.5
232.1671	27.02	-4.83	83938.900	3.5	126998.100	4.5	232.4268	27.02	-4.36	130183.800	3.5	173194.900	2.5
232.1686	26.01	-1.25	22637.190	4.5	65696.110	4.5	232.4296	8.01	-4.75	212161.940	1.5	255172.500	1.5
232.1694	25.01	-3.19	43131.400	2.0	86190.180	2.0	232.4322	27.01	-7.02	4028.900	4.0	47039.000	3.0
232.1697	25.01	-2.64	44521.520	4.0	87580.230	4.0	232.4327	27.01	-7.02	18338.500	1.0	61348.500	1.0
232.1720	27.02	-2.21	82363.300	4.5	125421.600	4.5	232.4375	20.02	-4.50	347383.510	4.0	390392.620	3.0
232.1724	25.02	-2.02	90746.060	5.5	133804.280	6.5	232.4377	26.02	-1.10	105906.230	2.0	148915.300	1.0
232.1727	26.02	-1.28	92523.910	5.0	135582.080	6.0	232.4377	28.01	-2.02	92373.450	2.5	135382.530	1.5
232.1730	45.00	-4.81	1451.835	0.0	44523.165	0.0	232.4378	26.02	-4.71	136185.170	5.0	179194.220	4.0
232.1736	15.01	-1.69	87967.700	3.0	131025.700	4.0	232.4379	25.02	-1.55	97271.760	5.5	140280.800	4.5
232.1760	25.00	-3.04	25281.040	2.5	68338.590	3.5	232.4401	9.01	-4.43	235150.580	2.0	278159.210	3.0
232.1844	27.01	-4.67	25147.200	4.0	68203.200	5.0	232.4498	9.02	-4.63	387367.920	2.5	430374.750	2.5
232.1858	23.01	-3.62	9097.810	4.0	52153.550	5.0	232.4500	72.01	-1.14	12017.970	0.0	55037.974	0.0
232.1862	28.01	-7.74	57420.160	2.5	100475.820	3.5	232.4531	38.01	-2.26	24516.650	0.0	67536.081	0.0
232.1876	27.02	-2.83	129747.300	2.5	172802.700	2.5	232.4550	26.02	-3.15	139846.180	6.0	182852.050	7.0
232.1942	24.01	-2.07	34659.480	.5	77713.660	1.5	232.4570	11.02	-1.65	417415.500	1.5	450421.000	2.5
232.1951	28.00	-1.41	204.786	3.0	43258.792	4.0	232.4646	27.02	-3.78	128937.400	.5	171941.500	.5
232.1972	28.00	-1.34	879.813	2.0	43933.428	2.0	232.4646	27.02	-3.78	128937.400	.5	171941.500	.5
232.1997	25.00	-1.14	25285.430	4.5	68338.590	3.5	232.4649	26.02	-4.11	140453.100	3.0	183457.150	4.0
232.2000	27.01	-3.68	24886.500	2.0	67939.600	2.0	232.4654	28.00	.33	1332.153	3.0	44336.100	4.0
232.2010	44.00	-4.32	1129.205	0.0	44195.342	0.0	232.4658	25.01	-1.94	30679.240	5.0	73683.110	4.0
232.2027	17.01	-3.31	131768.000	2.0	174820.000	2.0	232.4674	26.02	-4.77	140453.100	3.0	183456.690	3.0
232.2061	26.02	-1.55	93412.930	2.0	136464.900	1.0	232.4772	26.02	-4.33	89783.590	4.0	132785.360	4.0
232.2081	27.02	-2.97	130799.500	.5	173851.100	.5	232.4781	26.02	-3.56	73935.960	0.0	116937.570	1.0
232.2081	27.02	-2.97	130799.500	.5	173851.100	.5	232.4813	25.00	-4.26	25285.430	4.5	68286.440	4.5
232.2082	18.01	-2.79	158730.210	2.5	201781.790	2.5	232.4817	18.01	-4.84	157233.930	3.5	200234.860	2.5
232.2085	25.01	-2.44	49465.130	3.0	92516.650	4.0	232.4830	23.01	-2.93	19132.690	2.0	62133.390	3.0
232.2121	25.00	-2.20	25287.740	3.5	68338.590	3.5	232.4832	8.01	-2.55	212161.940	1.5	255162.600	.5
232.2159	26.01	-3.34	65580.090	5.5	108630.240	5.5	232.4835	24.02	-3.97	111854.000	5.0	154854.600	6.0
232.2177	10.01	-1.68	280473.580	1.5	323523.410	2.5	232.4854	28.01	-2.76	73893.730	1.5	116893.980	2.5
232.2198	28.01	-1.47	55417.830	3.5	98467.250	3.5	232.4878	26.01	-3.01	27314.930	3.5	70314.740	4.5
232.2215	26.02	-3.07	73849.100	1.0	116898.220	2.0	232.4888	10.01	-2.94	281171.380	2.5	324170.990	2.5
232.2227	15.01	-2.06	87125.400	2.0	130174.300	2.0	232.4890	72.01	.08	4839.451	0.0	47852.239	0.0
232.2237	26.02	-2.35	136612.780	4.0	179661.480	3.0	232.4898	10.01	-1.57	281171.380	2.5	324170.810	3.5
232.2262	27.00	-2.51	1809.330	1.5	44857.570	.5	232.4905	24.02	.50	57422.100	4.0	100421.000	5.0
232.2265	9.01	-2.43	246662.010	1.0	289710.200	2.0	232.4918	25.01	-2.01	49517.580	5.0	92516.650	4.0
232.2297	25.02	-2.83	135510.700	2.5	178558.300	1.5	232.4938	25.00	-3.92	25287.740	3.5	68286.440	4.5
232.2313	26.01	-8.06	26055.400	2.5	69102.690	2.5	232.4970	9.02	-2.34	415394.510	1.5	458392.610	1.5
232.2321	25.01	-1.05	46903.260	2.0	89950.400	3.0	232.5036	24.01	-1.43	31117.590	2.5	74114.480	3.5
232.2327	26.01	-1.70	23031.300	1.5	66078.340	2.5	232.5043	14.01	-2.38	114414.640	3.5	157411.000	2.5
232.2333	26.02	-2.71	88663.870	4.0	131710.790	5.0	232.5054	22.01	-2.54	4628.610	2.5	47625.170	2.5
232.2350	26.00	-5.43	8154.713	1.0	51201.330	2.0	232.5110	23.02	-4.48	43942.490	1.5	86938.010	2.5
232.2351	27.02	-4.35	126549.300	3.5	169595.900	3.5	232.5143	28.02	-3.10	138487.400	3.0	181482.300	4.0
232.2356	38.01	-4.30	24516.650	0.0	67576.370	0.0	232.5166	26.01	-4.44	21812.040	1.5	64806.520	.5
232.2405	26.02	-1.32	70694.030	5.0	113739.620	6.0	232.5181	27.01	-3.39	22414.500	3.0	65408.710	2.0
232.2436	8.01	-1.25	232796.270	2.5	275841.300	3.5	232.5187	26.02	-3.10	136200.130	3.0	179194.220	4.0
232.2470	72.01	-1.19	0.000	0.0	43057.607	0.0	232.5187	27.02	-4.78	128085.200	2.5	171079.300	3.5
232.2490	75.00	-6.68	0.000	0.0	43057.236	0.0	232.5187	27.02	-4.78	128085.200	2.5	171079.300	3.5
232.2502	28.02	-2.76	97841.400	2.0	140885.200	1.0	232.5187	27.02	-4.87	128085.200	2.5	171079.300	3.5
232.2518	27.02	-2.67	128423.100	1.5	171466.600	2.5	232.5199	26.01	-3.52	60989.480	4.5	103983.350	3.5
232.2518	27.02	-2.67	128423.100	1.5	171466.600	2.5	232.5294	26.01	-1.68	22939.350	2.5	55931.460	3.5
232.2550	28.02	-2.82	71067.000	3.0	114109.900	3.0	232.5318	26.00	-4.35	0.000	4.0	42991.680	5.0
232.2580	45.00	-4.43	0.000	0.0	43055.568	0.0	232.5338	27.02	-4.89	129592.300	4.5	172583.600	3.5
232.2610	25.02	-1.85	100085.200	1.5	143127.000	.5	232.5338	27.02	-4.89	129592.300	4.5	172583.600	3.5
232.2639	25.01	-3.91	44899.820	3.0	87941.080	4.0	232.5338	27.02	-3.46	129592.300	4.5	172583.600	3.5
232.2699	23.01	-5.53	20617.050	2.0	63657.200	2.0	232.5367	26.01	-1.23	36252.960	2.5	79243.730	1.5
232.2734	25.02	-7.71	94397.200	3.5	137436.700	4.5	232.5383	18.01	-3.42	158730.210	2.5	201720.670	1.5
232.2762	25.02	-4.73	89898.080	.5	132937.060	.5	232.5412	10.01	-3.34	281171.380	2.5	324161.310	3.5
232.2826	25.00	-3.99	23296.670	3.5	66334.470	3.5	232.5430	13.01	-1.76	95546.800	3.0	138536.400	3.0
232.2873	8.02	-2.96	313801.070	0.0	356838.000	1.0	232.5468	29.02	-3.4				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
232.6100	78.00	-0.33	6533.259	0.0	49523.672	0.0
232.6150	27.01	-0.16	4560.800	3.0	47537.100	2.0
232.6189	20.02	-1.35	34741.050	3.0	390392.620	3.0
232.6216	25.01	-1.95	27570.950	5.0	70546.020	4.0
232.6314	24.01	-0.10	32836.840	3.5	75810.100	4.5
232.6326	29.01	-2.64	73353.120	2.0	116326.160	3.0
232.6339	15.02	-1.43	172429.200	2.5	215402.000	2.5
232.6339	15.02	-1.13	172429.200	2.5	215402.000	2.5
232.6339	15.02	-1.28	172429.200	1.5	215402.000	2.5
232.6340	7.01	-1.39	178273.380	0.0	221462.170	1.0
232.6373	26.01	-3.18	18360.650	1.5	61332.820	1.5
232.6374	25.01	-2.27	44745.460	2.0	87717.620	3.0
232.6377	15.01	-3.20	86598.300	0.0	129570.400	1.0
232.6388	13.01	-3.32	95546.800	3.0	138518.700	2.0
232.6434	28.01	-1.14	72985.650	1.5	115956.710	2.5
232.6448	13.01	-1.78	95547.900	2.0	138518.700	2.0
232.6451	28.01	-0.86	10663.890	1.5	53634.620	1.5
232.6470	45.00	-0.42	3226.301	0.0	46209.877	0.0
232.6475	27.01	-1.14	3350.500	5.0	46320.800	4.0
232.6496	13.01	-1.04	95548.800	1.0	138518.700	2.0
232.6519	23.00	-5.43	0.000	1.5	42969.499	1.5
232.6526	28.01	-3.38	57420.160	2.5	100389.520	2.5
232.6537	28.01	-0.79	56371.410	3.5	99340.550	3.5
232.6547	20.02	-2.59	328090.990	2.0	371059.950	3.0
232.6559	25.01	-2.06	48333.060	5.0	91301.800	5.0
232.6560	74.00	-0.03	6129.972	0.0	49111.885	0.0
232.6615	24.01	-3.22	31351.150	2.5	74318.860	2.5
232.6633	28.01	-0.44	79823.030	3.5	122790.410	4.5
232.6637	30.02	-4.03	217655.800	3.0	260623.100	4.0
232.6651	26.02	-3.37	136612.780	4.0	179579.830	5.0
232.6659	26.02	-3.50	136793.820	2.0	179760.720	3.0
232.6725	26.02	-3.57	136793.820	2.0	179759.490	2.0
232.6735	28.01	-1.63	56075.260	2.5	99040.750	1.5
232.6784	24.00	-4.11	8095.210	3.0	51059.790	4.0
232.6790	26.02	-4.94	139846.180	6.0	182810.660	5.0
232.6834	26.02	-3.28	136797.050	3.0	179760.720	3.0
232.6846	25.01	-2.94	43339.100	2.0	86302.550	3.0
232.6869	28.01	-4.16	70358.940	4.5	113321.950	4.5
232.6885	25.01	-2.75	27583.300	4.0	70546.020	4.0
232.6887	24.00	-4.54	7927.470	2.0	50890.150	2.0
232.6897	9.03	-0.61	538597.800	3.0	581560.300	3.0
232.6900	26.02	-4.72	136797.050	3.0	179759.490	2.0
232.6930	90.01	-0.51	1774.465	0.0	44749.544	0.0
232.6943	26.02	-1.35	89697.520	3.0	132659.170	4.0
232.6976	25.01	-3.68	38901.800	4.0	81862.840	4.0
232.6982	26.02	-3.63	136797.050	3.0	179757.980	4.0
232.6990	76.00	-0.07	6049.314	0.0	49023.285	0.0
232.7027	22.02	-1.60	38063.500	1.0	81023.600	2.0
232.7033	17.01	-3.45	110297.000	3.0	153257.000	2.0
232.7103	25.01	-3.58	44899.820	3.0	87858.510	2.0
232.7118	25.02	-2.62	133736.640	5.5	176695.060	4.5
232.7139	18.02	-0.59	242923.960	1.0	285882.000	1.0
232.7141	25.02	-2.87	135858.960	2.5	178816.960	2.5
232.7152	25.01	-2.23	27588.230	3.0	70546.020	4.0
232.7168	17.01	-3.13	110299.500	2.0	153257.000	2.0
232.7229	25.01	-3.49	27570.950	5.0	70527.320	5.0
232.7263	18.01	-4.76	163299.470	2.5	206255.230	2.5
232.7269	24.01	-2.94	32854.460	4.5	75810.100	4.5
232.7269	25.02	-4.02	135861.320	1.5	178816.960	2.5
232.7303	25.00	-1.59	23549.200	2.5	66504.210	1.5
232.7304	17.01	-4.03	110302.000	1.0	153257.000	2.0
232.7314	24.02	-3.65	115668.900	5.0	158623.700	4.0
232.7345	23.01	-5.29	12545.150	4.0	55499.380	5.0
232.7359	28.01	-2.52	92792.080	3.5	135746.060	3.5
232.7388	22.01	-6.29	9518.050	2.5	52471.480	2.5
232.7393	26.01	-0.67	667.640	2.5	43620.980	1.5
232.7401	27.02	-3.68	83938.900	3.5	126892.100	3.5
232.7410	25.02	-3.38	94707.200	4.5	137660.240	3.5
232.7432	24.01	-4.89	31531.620	1.5	74484.250	2.5
232.7448	23.01	-3.08	19132.690	2.0	62085.020	2.0
232.7520	29.01	-3.31	71531.500	3.0	114482.500	2.0
232.7538	29.01	-3.81	88362.030	2.0	131312.700	3.0
232.7547	27.00	-2.28	5075.830	1.5	48026.340	1.5
232.7649	24.01	-1.55	49006.150	1.5	91954.780	2.5
232.7669	26.02	-1.73	70728.750	4.0	113677.010	5.0
232.7671	26.01	-3.86	20516.980	2.5	63465.190	1.5
232.7674	25.01	-3.04	39826.570	1.0	82774.730	1.0
232.7688	30.02	-2.28	218060.500	3.0	260988.400	4.0
232.7702	26.01	-1.22	42237.050	3.5	85184.690	4.5
232.7726	25.02	-1.92	135859.760	3.5	178816.960	2.5
232.7742	30.02	-0.64	218061.500	4.0	260988.400	4.0
232.7786	18.01	-2.19	163299.470	2.5	206245.570	3.5
232.7792	15.01	-1.41	87967.700	3.0	130913.700	3.0
232.7893	25.00	-4.16	17451.520	2.5	60395.640	1.5
232.7898	25.01	-2.62	27583.300	4.0	70527.320	5.0
232.7900	32.00	-0.23	7017.204	0.0	49974.376	0.0
232.7921	25.02	-3.12	97000.800	4.5	139944.400	3.5
232.7923	25.02	-4.44	133751.500	3.5	176695.060	4.5
232.7948	28.02	-4.03	140916.200	2.0	183859.300	3.0
232.7959	26.01	-2.22	22637.190	4.5	65580.090	5.5
232.7973	8.01	-2.08	212161.940	1.5	255104.600	2.5
232.7980	77.00	-0.03	12098.628	0.0	55054.323	0.0
232.8003	27.02	-2.09	130909.000	1.5	173851.100	1.5
232.8003	27.02	-2.09	130909.000	1.5	173851.100	1.5
232.8021	9.02	-1.81	415394.510	1.5	458336.270	1.5
232.8024	27.02	-3.29	128524.900	2.5	171466.600	2.5
232.8024	27.02	-3.29	128524.900	2.5	171466.600	2.5
232.8024	27.02	-4.87	128524.900	2.5	171466.600	2.5
232.8031	26.01	-4.45	61041.780	2.5	103983.350	3.5
232.8038	23.02	-2.42	102961.280	3.5	145902.730	4.5
232.8041	30.02	-0.85	218040.500	3.0	260981.900	3.0
232.8045	26.02	-2.01	70694.030	5.0	113635.340	4.0
232.8066	22.01	-8.04	9518.050	2.5	52458.980	1.5
232.8095	30.02	-1.93	218041.500	4.0	260981.900	3.0
232.8112	9.01	-2.95	246783.630	2.0	289223.730	1.0
232.8170	9.02	-2.92	440582.120	4.5	483521.140	3.5
232.8219	27.01	-0.71	24886.500	2.0	67824.600	2.0
232.8310	74.01	-0.31	1451.835	0.0	44401.442	0.0
232.8326	28.01	-1.20	92325.850	3.5	135261.990	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
232.8360	27.02	-2.52	128804.900	1.5	171740.400	1.5
232.8360	27.02	-2.52	128804.900	1.5	171740.400	1.5
232.8383	28.01	-0.36	73903.250	4.5	116838.330	1.5
232.8419	25.01	-3.34	27583.300	4.0	70517.720	3.0
232.8435	26.01	-3.36	65696.110	4.5	108630.240	3.5
232.8501	27.02	-3.14	82363.300	4.5	125296.200	5.5
232.8509	10.01	-2.48	279137.620	3.5	322070.380	3.5
232.8513	14.01	-5.87	0.000	5	42932.680	1.5
232.8550	27.02	-4.94	83938.900	3.5	126870.900	2.5
232.8566	14.03	-1.72	293718.990	3.5	336650.690	3.5
232.8566	14.03	-0.18	293718.990	3.5	336650.690	4.5
232.8566	14.03	-0.29	293718.990	2.5	336650.690	3.5
232.8580	23.01	-5.45	20617.050	2.0	63548.500	1.0
232.8597	23.02	-3.16	110181.470	2.5	153112.600	3.5
232.8636	28.01	-2.92	73893.730	1.5	116824.150	2.5
232.8640	25.01	-0.73	43131.400	2.0	86061.750	3.0
232.8640	45.00	-0.27	7743.122	0.0	50686.643	0.0
232.8660	75.00	-0.06	11534.025	0.0	54477.177	0.0
232.8686	25.01	-3.08	27588.230	3.0	70517.720	3.0
232.8730	25.01	-2.26	27589.030	2.0	70517.720	3.0
232.8750	57.01	-0.21	16454.134	0.0	59395.626	0.0
232.8813	25.01	-4.55	39808.140	3.0	82735.290	2.0
232.8849	25.01	-0.71	27570.950	5.0	70497.440	4.0
232.8944	23.02	-0.86	56256.750	1.5	99181.500	1.5
232.8946	27.02	-4.71	128804.900	1.5	171729.600	2.5
232.9000	28.01	-1.40	79923.880	4.5	122847.600	3.5
232.9023	24.01	-3.32	38509.070	3.5	81432.360	3.5
232.9093	27.00	-1.00	4690.180	2.5	47612.180	1.5
232.9098	25.01	-2.44	39813.380	2.0	82735.290	2.0
232.9115	27.01	-0.40	18338.500	1.0	61260.100	2.0
232.9125	15.01	-2.76	86744.700	1.0	129666.100	2.0
232.9150	25.01	-2.06	43528.300	5.0	86449.240	4.0
232.9169	25.02	-0.74	97023.800	3.5	139944.600	3.5
232.9183	8.01	-3.31	232959.260	3.5	275879.600	2.5
232.9183	8.01	-1.96	232959.260	3.5	275879.600	3.5
232.9207	28.02	-1.76	97996.300	3.0	140916.200	2.0
232.9212	17.02	-1.38	201765.100	2.5	244684.900	3.5
232.9248	26.01	-2.53	22637.190	4.5	65556.340	4.5
232.9265	23.01	-2.47	19166.190	1.0	62085.020	2.0
232.9265	10.01	-3.92	279137.620	3.5	322056.440	3.5
232.9266	9.03	-0.85	538597.800	3.0	581516.600	2.0
232.9280	48.00	-0.41	31617.748	0.0	74549.469	0.0
232.9287	10.01	-1.52	279137.620	3.5	322056.030	4.5
232.9315	24.01	-0.84	38315.000	2.5	81232.910	2.5
232.9354	18.01	-1.53	158428.030	5	201345.220	1.5
232.9391	26.02	-4.09	139463.360	5.0	182379.860	5.0
232.9401	28.01	-2.70	70706.770	1.5	113623.100	5
232.9458	26.00	-8.75	7985.783	2.0	50901.060	2.0
232.9519	25.01	-2.04	27583.300	4.0	70497.440	4.0
232.9537	10.01	-3.79	279137.620	3.5	322051.430	2.5
232.9557	28.01	-0.48	79923.880	4.5	122837.330	4.5
232.9559	28.01	-3.10	76402.030	2.5	119315.440	2.5
232.9562	12.01	-2.34	71490.190	2.5	114403.550	2.5
232.9562	12.01	-1.04	71490.190	2.5	114403.550	3.5
232.9601	26.02	-0.35	144085.970	4.0	186998.600	4.0
232.9609	12.01	-1.19	71491.060	1.5	114403.550	2.5
232.9617	25.01	-2.34	43536.900	4.0	86449.240	4.0
232.9636	24.00	-3.41	7750.780	0.0	50662.770	1.0
232.9641	26.00	-2.35	0.000	4.0	42911.897	5.0
232.9695	24.02	-2.46	115552.700	3.0	158463.600	3.0
232.9726	26.02	-2.71	70725.010	3.0	113635.340	4.0
232.9743	26.00	-0.72	415.932	3.0	43325.946	3.0
232.9784	26.02	-3.45	139509.440	5.0	182418.700	4.0
232.9787	25.01	-5.45	27588.230	3.0	70497.440	4.0
232.9814	25.01	-3.17	39826.570	1.0	82735.290	2.0
232.9822	24.00	-5.04	0.000	3.0	42908.570	4.0
232.9894	18.02	-2.02	242923.960	1.0	285831.200	0.0
232.9909	26.02	-1.33	77079.300	1.0	119982.260	1.0
232.9929	26.02	-2.75	70728.750	4.0	113635.340	4.0
232.9938	28.01	-1.10	24788.200	1.5	67694.640	2.5
232.9965	28.00	-0.15	2216.519	2.0	45122.460	1.0
232.9980	18.02	-0.72	239193.480	1.0	282099.140	2.0
233.0012	25.00	-1.87	23549.200	2.5	66454.270	3.5
233.0020	18.01	-3.24	157233.930	3.5	200138.850	3.5
233.0042	24.01	-1.12	31531.620	1.5	74436.140	2.5
233.0048	25.01	-2.34	39808.140	3.0	82712.550	3.0
233.0106	26.01	-3.18	27620.390	2.5	70523.730	3.5
233.0113	26.02	-0.16	139509.440	5.0	182412.650	4.0
233.0173	27.00	-1.41	5075.830	1.5	47977.940	5
233.0206	25.01	-3.42	32818.100	0.0	75719.590	1.0
233.0214	25.02	-1.71	94697.850	3.5	137599.200	3.5
233.0219	25.02	-1.26	97000.800	4.5	139902.060	5.5
233.0291	26.00	-6.89	7728.058	3.0	50628.000	3.0
233.0332	25.02	-3.76	134286.000	5	177185.180	5
233.0332	25.01	-3.83	39813.380	2.0	82712.550	3.0
233.0342	10.04	-1.85	597523.000	2.0	640422.000	1.0
233.0369	27.01	-0.31	4950.000	2.0	47848.500	1.0
233.0410	28.01	-0.55	79923.880	4.5	122821.630	5.5
233.0423	23.02	-0.47	44646.960	4.5	87544.460	4.5
233.0429	25.01	-2.72	43311.000	1.0	86208.400	1.0
233.0491	14.01	-3.14	114414.640	3.5	157310.900	3.5
233.0492	20.02	-0.83	282571.430	1.0	325467.670	2.0
233.0557	26.01	-1.75	41968.110	5.5	84863.140	5.5
233.0559	15.01	-1.91	87125.400	2.0	130020.400	3.0
233.0642	26.02	-0.36	146891.040	3.0	189784.520	2.0
233.0646	24.02	-3.78	115570.200	4.0	158463.600	3.0
233.0722	25.02	-0.32	94707.200	4.5	137599.200	3.5
233.0820	24.02	-0.14	115552.700	3.0	158462.900	4.0
233.0836	26.01	-3.66	61093.440	2.5	103983.350	3.5
233.0863	19.02	-1.77	246625.600	1.5	289515.000	1.5
233.0868	23.02	-2.34	98825.190	3.5	141714.500	2.5
233.0871	25.01	-1.68	31022.050	0.0	73911.310	1.0
233.0879	26.02	-3.45	136793.820	2.0	179682.940	1.0
233.0898	25.02	-3.65	94771.470	2.5	137660.240	3.5
233.0974	25.01	-2.77	30795.750	4.0	73683.110	4.0
233.1050	26.00	-5.30	7728.058	3.0	50614.020	4.0
233.1060	26.01	-1.67	22810.330	3.5	65696.110	4.5
233.1092	25.02	-0.26	94397.200	3.5	137282.400	2.5
233.1096	26.00	-1.96	12560.933	3.0	55446.060	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
233.1108	24.02	-3.93	115181.800	2.0	158066.700	3.0	233.3889	8.01	-3.12	233430.100	.5	276263.900	.5
233.1123	28.01	-4.45	72985.650	1.5	115870.280	2.5	233.3889	8.01	-4.17	233430.100	.5	276263.900	1.5
233.1188	14.02	-3.54	214532.170	1.0	257415.600	1.0	233.3894	26.02	-3.50	136797.050	3.0	179630.770	4.0
233.1188	14.02	-3.06	214532.170	1.0	257415.600	2.0	233.3906	28.01	-1.19	94729.250	2.5	137562.740	3.5
233.1201	25.01	-4.76	32836.400	1.0	75719.590	1.0	233.3940	3.00	-3.27	0.000	0.0	42846.003	0.0
233.1202	28.01	-1.16	73903.250	.5	116786.420	.5	233.3945	10.01	-3.79	279218.660	2.5	322051.430	2.5
233.1207	26.02	-3.94	136793.820	2.0	179676.890	2.0	233.3949	15.01	-1.92	86193.000	4.0	131025.700	4.0
233.1262	23.02	-1.78	56922.500	2.5	99804.570	2.5	233.3971	10.01	-4.70	279218.660	2.5	322050.950	1.5
233.1264	8.01	-2.77	232959.260	3.5	275841.300	3.5	233.3981	23.00	-4.72	137.380	2.5	42969.490	1.5
233.1264	8.01	-1.42	232959.260	3.5	275841.300	4.5	233.4124	9.01	-1.61	211887.190	2.0	254716.680	2.0
233.1290	73.01	.88	11695.340	0.0	54590.046	0.0	233.4170	24.01	-1.38	25047.040	2.5	67875.680	3.5
233.1300	74.00	.02	12098.628	0.0	54993.150	0.0	233.4207	23.07	.10	44110.040	2.5	86938.010	2.5
233.1304	15.01	-3.73	86744.700	1.0	129626.000	1.0	233.4220	25.02	-4.00	94771.470	2.5	137599.200	3.5
233.1308	26.01	-1.91	1872.600	4.5	44753.820	3.5	233.4238	24.01	-1.25	25043.100	1.5	67870.500	1.5
233.1328	23.01	-4.55	14461.730	3.0	57342.590	2.0	233.4290	26.01	-1.77	61156.900	3.5	103983.350	3.5
233.1350	22.02	-1.44	38063.500	1.0	80943.950	0.0	233.4330	15.01	-3.41	86744.700	1.0	129570.400	1.0
233.1355	26.02	-3.07	70725.010	3.0	113605.370	3.0	233.4330	75.00	-1.08	11534.025	0.0	54372.870	0.0
233.1370	47.01	-1.02	40490.075	0.0	83383.309	0.0	233.4335	22.02	-1.48	38197.980	2.0	81023.600	2.0
233.1380	24.01	-3.62	32836.840	3.5	75716.740	3.5	233.4372	24.01	-1.27	25043.100	1.5	67868.050	2.5
233.1383	26.02	-3.07	136797.050	3.0	179676.890	2.0	233.4375	10.01	-2.02	28132.550	.5	324157.430	1.5
233.1384	26.02	-1.85	77102.430	2.0	119982.260	1.0	233.4382	10.01	-2.16	280700.770	3.5	323525.530	4.5
233.1419	25.01	-2.60	43311.000	1.0	86190.180	2.0	233.4397	18.02	-2.10	188517.320	1.0	231341.800	2.0
233.1434	25.01	-4.96	38901.800	4.0	81780.700	3.0	233.4404	14.01	-4.82	0.000	.5	42824.350	.5
233.1450	18.01	-4.21	158730.210	2.5	201608.820	3.5	233.4409	24.01	-1.41	25035.640	.5	67859.910	.5
233.1469	18.01	-3.78	147227.970	.5	190106.230	1.5	233.4453	24.01	-1.33	25047.040	2.5	67870.500	1.5
233.1493	23.01	-3.15	12621.570	5.0	55499.380	5.0	233.4477	9.01	-1.80	211900.260	1.0	254723.280	1.0
233.1510	26.02	-4.01	89907.850	4.0	132785.360	4.0	233.4483	26.02	-4.62	93412.930	2.0	136235.840	1.0
233.1510	26.02	-1.95	89907.850	5.0	132785.360	4.0	233.4497	10.01	-3.44	280700.770	3.5	323523.410	2.5
233.1546	25.01	-1.17	47073.560	3.0	89950.400	3.0	233.4500	77.00	.13	6291.287	0.0	49127.012	0.0
233.1554	27.02	-3.70	129706.900	3.5	172583.600	3.5	233.4515	9.02	-4.05	344436.960	.5	387259.280	1.5
233.1554	27.02	-3.70	129706.900	3.5	172583.600	3.5	233.4523	26.00	-2.30	12968.552	2.0	55790.720	3.0
233.1558	26.02	-1.76	70728.750	4.0	113605.370	3.0	233.4554	25.02	-3.13	88880.080	2.5	131701.690	1.5
233.1615	26.02	-2.36	89783.590	4.0	132659.170	4.0	233.4560	76.00	-1.34	2661.698	0.0	45496.322	0.0
233.1673	22.02	-1.50	38063.500	1.0	80938.020	1.0	233.4576	25.01	-2.40	43131.400	2.0	85952.600	3.0
233.1679	28.01	-3.56	70748.700	.5	113623.100	.5	233.4586	24.01	-1.98	25047.040	2.5	67868.050	2.5
233.1699	28.00	-1.73	1332.153	3.0	44206.185	3.0	233.4586	28.01	-1.15	13550.390	3.5	56371.410	3.5
233.1701	9.02	-1.68	415720.860	2.5	458594.860	2.5	233.4593	18.01	-3.22	163299.470	2.5	206120.350	2.5
233.1750	23.02	.28	44345.820	3.5	87218.920	3.5	233.4606	14.01	-4.23	287.320	1.5	43107.970	2.5
233.1759	28.01	-1.83	58493.210	2.5	101366.140	2.5	233.4619	20.02	-3.45	350741.190	3.0	393561.590	4.0
233.1895	26.02	-3.53	139509.440	5.0	182379.860	5.0	233.4660	25.00	-3.84	17282.500	3.5	60101.650	2.5
233.1899	24.01	-4.61	38362.560	1.5	81232.910	2.5	233.4761	25.01	-2.52	44899.820	3.0	87717.620	3.0
233.1956	25.01	-2.23	43339.100	2.0	86208.400	1.0	233.4770	45.01	1.07	16776.764	0.0	59607.535	0.0
233.1961	24.01	-2.79	38563.150	4.5	81432.360	3.5	233.4774	26.00	-5.92	7985.783	2.0	50803.350	2.0
233.1978	28.02	-3.25	140183.800	4.0	183052.700	4.0	233.4800	50.00	-1.18	1613.150	0.0	44443.371	0.0
233.2011	12.03	-3.98	553659.000	1.5	596527.300	2.5	233.4815	24.01	-1.44	25043.100	1.5	67859.910	.5
233.2046	26.02	-3.22	136793.820	2.0	179661.480	3.0	233.4833	23.02	-4.18	56256.750	1.5	99073.230	.5
233.2107	28.01	-1.13	79923.880	4.5	122790.410	4.5	233.4837	9.01	-2.28	211900.260	1.0	254716.680	2.0
233.2120	42.01	.36	15244.271	0.0	58123.711	0.0	233.4838	27.02	-2.38	55729.200	3.5	98545.600	3.5
233.2145	25.01	.05	48435.960	6.0	91301.800	5.0	233.4880	73.01	.85	6775.232	0.0	49603.986	0.0
233.2190	73.01	1.12	4355.506	0.0	47233.659	0.0	233.4945	9.01	-2.26	211887.190	2.0	254701.620	3.0
233.2221	26.02	-3.58	136797.050	3.0	179661.480	3.0	233.4947	10.01	-2.87	280700.770	3.5	323515.170	3.5
233.2261	27.02	-3.74	82363.300	4.5	125227.000	3.5	233.4979	24.02	-4.93	111643.300	4.0	154457.100	4.0
233.2275	18.02	-1.92	243145.760	2.0	286009.210	2.0	233.5029	23.02	-3.17	98383.530	2.5	141196.430	2.5
233.2322	18.01	-4.67	158167.710	1.5	201030.300	.5	233.5038	10.01	-2.58	280700.770	3.5	323513.500	3.5
233.2338	24.01	-3.44	32854.460	4.5	75716.740	3.5	233.5064	10.01	-1.84	280700.770	3.5	323513.030	4.5
233.2373	24.01	-3.46	32855.090	2.5	75716.740	3.5	233.5091	28.01	-1.77	52205.950	3.5	95017.710	4.5
233.2411	25.01	-1.77	48317.850	4.0	91178.800	4.0	233.5098	20.02	-1.92	350741.190	3.0	393552.810	3.0
233.2422	25.01	-2.54	32858.040	2.0	75719.590	1.0	233.5105	9.03	-1.28	538854.100	4.0	581665.600	4.0
233.2440	82.00	-1.12	10566.135	0.0	53439.692	0.0	233.5108	27.00	-2.16	0.000	4.5	42811.440	3.5
233.2476	25.02	-3.02	136823.860	3.5	179683.610	4.5	233.5111	26.02	-2.68	93388.750	4.0	136200.130	3.0
233.2506	26.02	-1.64	70725.010	3.0	113584.200	2.0	233.5126	20.02	-1.36	350741.190	3.0	393552.310	4.0
233.2528	26.00	-4.22	7728.058	3.0	50586.857	3.0	233.5198	27.02	-1.93	130799.500	.5	173609.300	1.5
233.2586	25.01	-2.53	43131.400	2.0	85989.120	2.0	233.5198	27.02	-1.93	130799.500	.5	173609.300	1.5
233.2623	25.02	-1.47	97000.800	4.5	139857.840	4.5	233.5198	27.02	-4.75	130799.500	.5	173609.300	1.5
233.2689	28.01	-4.88	53037.930	2.5	95893.760	1.5	233.5210	23.01	-3.93	11908.270	2.0	54717.850	1.0
233.2723	24.00	-3.94	8095.210	3.0	50950.420	3.0	233.5250	26.00	-4.47	6928.266	5.0	49737.110	5.0
233.2797	14.02	-2.17	214994.650	1.0	257848.500	2.0	233.5270	56.01	1.24	5674.824	0.0	48496.425	0.0
233.2798	26.01	-1.04	384.770	3.5	43238.610	2.5	233.5313	26.02	-3.64	93392.450	3.0	136200.130	3.0
233.2874	25.00	-3.75	23296.670	3.5	66149.100	3.5	233.5319	26.02	-4.53	98661.880	1.0	141469.450	1.0
233.2899	10.01	-3.12	279218.660	2.5	322070.630	2.5	233.5331	23.01	-3.20	11908.270	2.0	54715.630	2.0
233.2901	24.00	-2.85	7810.820	1.0	50662.770	1.0	233.5363	18.02	-1.70	239193.480	1.0	282000.260	1.0
233.2902	18.01	-2.15	172213.800	1.5	215065.710	.5	233.5484	26.01	-3.25	42658.230	3.5	85462.780	3.5
233.2913	10.01	-3.37	279218.660	2.5	322070.630	3.5	233.5488	23.01	-1.66	12545.150	4.0	55349.630	3.0
233.2937	9.02	-3.72	387523.470	3.5	430374.750	2.5	233.5493	23.01	-5.85	26839.820	3.0	69644.200	3.0
233.2948	25.01	-3.49	43339.100	2.0	86190.180	2.0	233.5515	18.01	-4.71	163299.470	2.5	206103.450	1.5
233.2970	72.01	-1.23	3629.588	0.0	46493.405	0.0	233.5569	27.02	-2.88	128937.400	.5	171740.400	1.5
233.2976	9.01	-2.26	211866.130	3.0	254716.680	2.0	233.5569	27.02	-2.88	128937.400	.5	171740.400	1.5
233.2986	24.00	-3.00	7810.820	1.0	50661.200	0.0	233.5569	27.02	-5.00	128937.400	.5	171740.40	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
233.6562	27.02	-2.47	85474.100	6.5	128258.900	5.5
233.6568	25.00	-2.17	23719.520	1.5	66504.210	1.5
233.6568	27.02	-1.90	129592.300	4.5	172377.000	3.5
233.6632	28.01	-0.88	23796.180	1.5	66579.710	1.5
233.6639	28.01	-3.11	56371.410	3.5	99154.810	4.5
233.6694	19.02	-2.57	201165.000	2.5	243947.400	1.5
233.6709	20.02	-0.37	305779.470	3.0	393561.590	4.0
233.6717	28.01	-0.12	29593.460	5.0	72375.420	1.5
233.6726	23.01	-3.41	12621.570	5.0	55403.380	6.0
233.6732	14.01	-2.19	114529.200	4.5	157310.900	3.5
233.6763	26.02	-1.30	89783.590	4.0	132564.710	5.0
233.6800	76.01	1.67	3548.931	0.0	46342.495	0.0
233.6856	26.01	-1.55	21308.080	1.5	64087.500	2.5
233.6900	14.03	-3.92	293837.920	3.5	336616.550	3.5
233.6900	14.03	-2.37	293837.920	4.5	336616.550	3.5
233.6900	14.03	-2.49	293837.920	3.5	336616.550	2.5
233.6922	20.02	-2.18	281882.240	2.0	324660.470	3.0
233.6983	27.01	-0.68	21624.400	5.0	64401.500	4.0
233.7065	24.02	-3.53	115552.700	3.0	158328.300	2.0
233.7089	28.00	-1.72	879.813	2.0	43654.974	3.0
233.7089	28.01	-1.70	23796.180	1.5	66571.340	2.5
233.7131	19.02	-0.54	246625.600	1.5	289400.000	2.5
233.7133	23.02	0.01	43942.490	1.5	86716.840	1.5
233.7152	24.02	-2.67	115668.900	5.0	158442.900	4.0
233.7189	20.02	-1.80	350779.470	3.0	393552.810	3.0
233.7193	28.01	-2.16	70635.460	2.5	113408.710	1.5
233.7270	28.01	-1.40	70635.460	2.5	113407.310	2.5
233.7292	26.01	-2.49	42401.330	1.5	85172.770	1.5
233.7314	23.02	0.09	56669.050	1.5	99440.100	2.5
233.7330	72.01	-0.72	0.000	0.0	42783.860	0.0
233.7382	27.02	-1.26	82920.700	3.5	125690.500	3.5
233.7445	25.01	-3.61	55696.500	4.0	98465.150	5.0
233.7459	27.00	-0.09	7442.410	3.5	50210.800	4.5
233.7486	28.00	-0.98	0.000	4.0	42767.900	3.0
233.7499	25.01	-0.48	55696.500	4.0	98464.160	4.0
233.7507	23.01	-0.14	23391.090	5.0	66158.600	4.0
233.7571	26.02	-0.55	144116.640	3.0	186882.980	3.0
233.7609	25.01	-1.84	43536.900	4.0	86302.550	3.0
233.7622	30.02	-1.93	218040.500	3.0	260805.900	2.0
233.7655	28.01	-3.85	58493.210	2.5	101258.010	1.5
233.7686	26.02	-3.83	139680.470	3.0	182444.700	3.0
233.7710	26.02	-2.25	140693.360	3.0	183457.150	4.0
233.7736	26.02	-3.32	140693.360	3.0	183456.690	3.0
233.7736	24.01	-0.93	131351.150	2.5	74114.480	3.5
233.7778	18.01	-0.42	159393.310	1.5	202155.860	2.5
233.7792	30.02	-3.93	217655.800	3.0	260418.100	2.0
233.7804	28.00	-1.08	1713.080	1.0	44475.158	2.0
233.7877	26.01	-0.27	23317.600	2.5	66078.340	2.5
233.7937	26.02	-1.51	105895.350	1.0	148655.000	0.0
233.7950	75.00	-0.10	11695.340	0.0	54467.854	0.0
233.7957	25.01	-0.91	27583.300	4.0	70342.580	3.0
233.7962	23.01	-2.01	12545.150	4.0	55304.340	4.0
233.7965	27.00	-0.45	1809.330	1.5	44568.470	2.5
233.8000	25.00	-0.34	17637.150	0.5	60395.640	1.5
233.8008	26.01	-0.24	862.630	1.5	43620.980	1.5
233.8042	23.02	-3.43	110181.470	2.5	152939.200	2.5
233.8083	22.01	-0.40	983.800	2.5	43740.770	3.5
233.8121	20.02	-1.81	350805.320	4.0	393561.590	4.0
233.8134	26.01	-3.76	20516.980	2.5	63273.030	2.5
233.8195	26.01	-3.34	30388.550	4.5	73143.480	3.5
233.8208	26.02	-3.73	139625.170	4.0	182379.860	5.0
233.8224	18.02	-1.14	239193.480	1.0	281947.880	0.0
233.8227	25.01	-1.40	27588.230	3.0	70342.580	3.0
233.8237	28.01	-0.42	58493.210	2.5	101247.370	2.5
233.8269	24.01	-1.55	35356.060	1.5	78109.640	1.5
233.8270	25.01	-2.65	27589.030	2.0	70342.580	3.0
233.8280	31.00	-1.22	806.575	0.0	43573.053	0.0
233.8280	73.01	1.10	6936.547	0.0	49703.025	0.0
233.8289	9.02	-4.96	387259.280	1.5	430012.480	1.5
233.8298	25.01	-4.16	43696.190	3.0	86449.240	4.0
233.8343	24.00	-4.54	8307.570	4.0	51059.790	4.0
233.8392	26.02	-2.75	89907.850	4.0	132659.170	4.0
233.8392	26.02	-3.03	89907.850	5.0	132659.170	4.0
233.8481	27.02	-1.41	83799.600	2.5	126549.300	3.5
233.8492	27.01	-3.55	13261.100	2.0	56010.600	2.0
233.8495	28.00	-3.12	204.786	3.0	42954.234	2.0
233.8531	18.01	-4.66	163506.450	3.5	206255.230	2.5
233.8547	25.01	-3.65	49291.310	3.0	92039.800	2.0
233.8555	26.01	-1.02	42114.790	4.5	84863.140	5.5
233.8585	26.02	-2.17	73727.640	2.0	116475.440	3.0
233.8602	20.02	-3.35	350805.320	4.0	393552.810	3.0
233.8629	20.02	-1.90	350805.320	4.0	393552.810	4.0
233.8630	76.00	-0.50	0.000	0.0	42760.077	0.0
233.8654	20.02	-0.26	350805.320	4.0	393551.860	5.0
233.8663	27.00	-0.25	1809.330	1.5	44555.710	1.5
233.8664	26.00	-0.79	8154.713	1.0	50901.060	2.0
233.8683	26.01	-2.67	22810.330	3.5	65556.340	4.5
233.8697	10.01	-1.98	279324.890	1.5	322070.630	2.5
233.8710	25.02	-3.86	133949.540	4.5	176695.060	4.5
233.8900	9.01	-0.36	235150.580	2.0	277892.610	3.0
233.8910	24.01	-3.40	11531.620	1.5	74273.480	1.5
233.8924	27.02	-2.75	85517.300	5.5	128258.900	5.5
233.8965	26.02	-0.80	76956.790	3.0	119697.640	2.0
233.9009	22.02	-0.12	38197.980	2.0	80938.020	1.0
233.9045	27.01	-0.52	22414.500	3.0	65153.900	4.0
233.9054	27.00	-1.57	816.000	3.5	43555.220	3.5
233.9060	18.01	-3.37	163506.450	3.5	206245.570	3.5
233.9075	25.02	-3.54	94697.850	3.5	137436.700	4.5
233.9109	26.02	-3.28	139680.470	3.0	182418.700	4.0
233.9167	26.02	-4.99	98661.880	1.0	141399.040	2.0
233.9217	18.02	-0.08	243145.760	2.0	285882.000	1.0
233.9269	24.00	-2.22	7927.470	2.0	50662.770	1.0
233.9335	11.02	-1.35	374681.400	0.5	417415.500	1.5
233.9381	8.01	-3.33	212161.940	1.5	254895.200	1.5
233.9381	8.01	-2.67	212161.940	1.5	254895.200	2.5
233.9401	26.01	-2.42	42439.880	0.5	85172.770	0.5
233.9406	26.01	-1.02	18360.650	1.5	61093.440	2.5
233.9434	25.02	-2.70	91906.100	2.5	134638.390	1.5
233.9449	25.00	-4.23	17052.290	4.5	59784.310	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
233.9555	27.00	-1.69	4142.660	3.5	46872.740	3.5
233.9587	25.02	-2.25	94707.200	4.5	137436.700	4.5
233.9629	26.00	-5.32	7728.058	3.0	50456.790	3.0
233.9645	26.02	-2.85	139680.470	3.0	182408.910	3.0
233.9692	22.01	-3.81	4897.600	3.5	47625.170	2.5
233.9705	29.01	-2.20	73353.120	2.0	116080.460	3.0
233.9708	24.00	-2.23	7927.470	2.0	50654.760	2.0
233.9718	25.01	-2.87	32836.400	1.0	75563.490	0.0
233.9735	25.01	-2.79	47073.560	3.0	89800.340	4.0
233.9749	10.01	-1.77	279324.890	1.5	322051.430	2.5
233.9752	26.01	-2.28	22637.190	4.5	65363.660	5.5
233.9767	28.02	-2.57	71383.700	2.0	114109.900	3.0
233.9770	10.01	-2.36	280797.260	2.5	323523.410	2.5
233.9775	10.01	-2.25	279324.890	1.5	322050.950	1.5
233.9795	27.02	-2.08	130407.800	2.5	173133.500	1.5
233.9795	18.01	-1.63	157233.930	3.5	199959.620	2.5
233.9806	26.02	-2.54	93392.450	3.0	136117.940	2.0
233.9896	24.01	-2.93	38509.070	3.5	81232.910	2.5
233.9898	27.00	-3.41	8460.810	2.5	51184.630	3.5
233.9904	25.02	-1.42	71564.210	1.5	114287.910	2.5
233.9937	26.02	-1.63	97041.380	3.0	139764.480	2.0
233.9962	25.01	-1.86	43339.100	2.0	86061.750	3.0
234.0002	25.01	-1.36	41190.470	6.0	83912.380	5.0
234.0022	26.00	-3.22	415.932	3.0	43137.472	3.0
234.0043	26.01	-2.92	60887.660	5.5	103608.820	4.5
234.0057	10.01	-1.63	281720.280	1.5	324441.190	2.5
234.0069	15.01	-2.84	88193.000	4.0	130913.700	3.0
234.0117	8.01	-3.47	233544.090	1.5	276263.900	1.5
234.0117	8.01	-2.67	233544.090	1.5	276263.900	1.5
234.0140	27.02	-4.68	128085.200	2.5	170804.600	1.5
234.0151	24.02	-4.16	114715.900	1.0	157435.100	2.0
234.0151	17.02	-2.69	205938.500	1.5	248657.700	2.5
234.0160	3.00	-3.18	0.000	0.0	42732.121	0.0
234.0180	78.00	-0.10	6533.259	0.0	49265.015	0.0
234.0221	10.01	-3.30	280797.260	2.5	323515.170	3.5
234.0313	26.02	-4.74	139764.480	2.0	182480.720	2.0
234.0313	10.01	-1.77	280797.260	2.5	323513.500	3.5
234.0335	26.02	-1.63	92523.910	5.0	135239.740	4.0
234.0350	26.01	-1.25	36126.410	1.5	78841.970	1.5
234.0434	23.01	-3.00	25191.080	2.0	67905.100	3.0
234.0452	26.01	-3.16	42334.860	2.5	85048.560	1.5
234.0459	26.01	-0.30	21711.890	3.5	64425.460	2.5
234.0460	26.02	-4.15	143883.740	5.0	186597.300	6.0
234.0562	28.02	-1.79	71383.700	2.0	114095.400	1.0
234.0591	25.01	-1.22	30684.810	1.0	73395.970	2.0
234.0611	17.02	-0.08	205946.900	2.5	248657.700	2.5
234.0616	24.02	-3.88	111375.000	3.0	154085.700	3.0
234.0678	25.02	-2.07	90746.060	5.5	133455.640	5.5
234.0686	26.01	-3.27	49506.990	1.5	92216.420	1.5
234.0690	44.00	-0.02	2016.438	0.0	44738.883	0.0
234.0690	76.00	-0.09	5081.424	0.0	47803.869	0.0
234.0762	25.01	-2.86	41204.340	5.0	83912.380	5.0
234.0863	9.03	-0.98	538854.100	4.0	581560.300	3.0
234.0890	26.02	-2.28	140750.980	2.0	183456.690	3.0
234.0928	26.02	-4.03	93412.930	2.0	136117.940	2.0
234.0940	26.01	-0.71	21581.640	4.5	64286.440	3.5
234.0940	73.01	-0.90	6775.232	0.0	49493.115	0.0
234.0984	24.02	-4.79	171099.300	4.0	159803.300	4.0
234.0995	27.02	-4.95	126892.100	3.5	169595.900	3.5
234.0997	27.00	-1.97	4690.180	2.5	47393.930	2.5
234.1022	28.02	-2.56	97841.400	2.0	140544.700	3.0
234.1030	26.01	-2.48	30388.550	4.5	73091.700	4.5
234.1097	28.01	-1.72	70706.770	1.5	113408.710	1.5
234.1127	25.01	-2.90	52379.380	2.0	95080.760	1.0
234.1168	24.00	-2.32	7927.470	2.0	50628.110	3.0
234.1173	28.01	-2.61	70706.770	1.5	113407.310	2.5
234.1178	25.01	-0.13	48317.850	4.0	90108.300	3.0
234.1184	25.01	-1.94	30684.810	1.0	73385.150	1.0
234.1187	27.02	-0.71	130909.000	1.5	173609.300	1.5
234.1187	27.02	-0.71	130909.000	1.5	173609.300	1.5
234.1187	27.02	-4.77	130909.000	1.5	173609.300	1.5
234.1204	26.02	-4.43	157684.300	2.0	200384.280	3.0
234.1205	27.01	-0.21	22009.230	4.0	64709.200	5.0
234.1208	28.01	-0.24	29070.930	1.5	71770.830	2.5
234.1219	25.02	-0.61	71395.270	5	114094.970	1.5
234.1225	26.00	-1.71	6928.266	5.0	49627.861	4.0
234.1239	25.02	-2.36	135858.960	2.5	178558.300	1.5
234.1246	27.00	-3.79	8460.810	2.5	51160.030	2.5
234.1286	28.01	-2.00	66571.340	2.5	109269.830	1.5
234.1340	18.01	-1.92	172213.800	1.5	214911.300	2.5
234.1355	23.01	-2.51	12706.150	6.0	55403.380	6.0
234.1369	25.02	-3.27	135861.320	1.5	178558.300	1.5
234.1370	76.00	-0.83	1613.150	0.0	44323.187	0.0
234.1393	22.01	-4.69	16625.250	1.5	59321.790	2.5
234.1422	9.02	-1.66	440825.130	2.5	483521.140	3.5
234.1544	22.01	-6.70	1087.210	3.5	43780.990	4.5
234.1546	20.02	-0.57	347758.220	2.0	390451.970	3.0
234.1580	18.01	-3.49	147503.020	1.5	190196.160	5
234.1589	26.00	-6.51	415.932	3.0	43108.899	4.0
234.1590	42.01	-0.55	15082.956	0.0	57788.981	0.0
234.1610	73.01	-1.24	12340.601	0.0	55046.261	0.0
234.1655	26.02	-3.08	73727.640	2.0	116419.390	2.0
234.1745	28.01	-2.13	66579.710	1.5	109269.830	1.5
234.1828	23.02	-4.93	98062.220	1.5	140750.820	2.5
234.1889	26.02	-3.24	93512.640	4.0	136200.130	3.0
234.1956	26.01	-1.13	31811.870	2.5	74498.150	1.5
234.2007	25.00	-3.32	23818.870	5	66504.210	1.5
234.2023	9.02	-2.36	440825.130	2.5	483510.170	2.5
234.2090	25.00	-0.49	25281.040	2.5	67964.870	2.5
234.2090	26.02	-3.86	137209.730	4.0	179893.560	5.0
234.2148	23.01	-0.58	12621.570	5.0	55304.340	4.0
234.2162	23.02	-3.19	98825.190	3.5	141507.700	3.5
234.2174	30.02	-1.00	257491.100	0.0	300173.400	1.0
234.2211	9.02	-1.22	440828.550	1.5	483510.170	2.5
234.2238	26.01	-2.49	18360.650	1.5	61041.780	2.5
234.2264	23.01	-2.27	13490.840	2.0	58171.490	1.0
234.2278	25.01	-2.21	44899.820	3.0	87580.230	4.0
234.2372	24.02	-3.40	71676.200	4.0	114354.900	4.0
234.2403	25.01	-2.39	43311.000	1.0	85989.120	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
234.2443	24.02	-1.03	57422.100	4.0	100099.500	4.0	234.5256	18.01	-2.26	163506.450	3.5	206132.660	4.5
234.2458	25.00	-1.44	25287.740	3.5	67984.870	2.5	234.5269	24.01	-1.04	21822.860	2.5	64448.840	2.5
234.2504	23.01	-3.34	20980.920	2.0	63657.200	2.0	234.5271	28.01	.48	32523.540	3.5	75149.480	4.5
234.2512	26.00	-3.83	6928.266	5.0	49604.402	5.0	234.5280	75.00	-2.28	13711.778	0.0	56350.610	0.0
234.2538	25.00	-2.11	23719.520	1.5	66395.190	2.5	234.5332	26.01	.06	21251.550	6.5	63876.350	5.5
234.2558	24.01	-3.26	42898.120	2.5	85573.420	3.5	234.5372	26.00	-3.53	11976.239	4.0	54600.280	3.0
234.2590	26.01	-3.74	18360.650	1.5	61035.370	.5	234.5377	24.01	-.77	21824.820	1.5	64448.840	2.5
234.2710	26.02	-3.13	93512.640	4.0	136185.170	5.0	234.5442	18.02	-1.41	226355.960	2.0	268978.800	1.0
234.2753	9.02	-1.75	415720.860	2.5	458392.610	1.5	234.5444	28.01	-.90	10115.660	2.5	52738.450	2.5
234.2776	15.01	-3.93	65252.250	1.0	107923.570	2.0	234.5469	26.02	-3.04	77075.300	1.0	119697.640	2.0
234.2777	24.00	-2.61	7593.160	2.0	50264.480	3.0	234.5472	13.01	-4.15	105467.700	2.0	148090.000	1.0
234.2788	25.01	-1.77	41204.340	5.0	83875.460	4.0	234.5472	13.01	-2.98	105467.700	2.0	148090.000	2.0
234.2805	27.00	-2.51	1809.330	1.5	44480.140	2.5	234.5472	13.01	-2.23	105467.700	2.0	148090.000	3.0
234.2844	27.02	-2.71	129706.900	3.5	172377.000	3.5	234.5491	26.00	-4.15	704.003	2.0	43325.946	3.0
234.2866	27.02	-3.50	56373.800	2.5	99043.500	1.5	234.5494	27.01	-1.07	25317.720	1.0	67939.600	2.0
234.2972	25.01	-1.91	46903.260	2.0	89571.030	3.0	234.5525	18.01	-2.37	158730.210	2.5	201351.550	2.5
234.2975	20.02	-4.77	328606.780	2.0	371274.480	2.0	234.5540	28.00	.28	0.000	4.0	42621.048	3.0
234.3015	26.02	-4.84	137209.730	4.0	179876.710	4.0	234.5543	24.01	-2.93	30864.610	2.5	73485.600	3.5
234.3085	13.01	-2.85	105424.300	0.0	148090.000	1.0	234.5598	26.02	-3.85	93388.750	4.0	136008.740	3.0
234.3096	24.02	-4.48	112398.500	4.0	155064.000	4.0	234.5617	9.02	-2.04	349007.250	2.5	391626.910	3.5
234.3130	74.00	-.26	16857.422	0.0	59253.378	0.0	234.5624	26.01	-2.72	50076.100	1.5	92695.620	2.5
234.3136	23.02	.38	56160.420	2.5	98825.190	3.5	234.5634	25.02	-.77	90440.500	4.5	133059.840	3.5
234.3180	77.00	.51	5726.684	0.0	48403.730	0.0	234.5634	26.01	-3.10	60989.480	4.5	103608.820	4.5
234.3221	10.01	-3.24	276276.850	1.5	318940.080	1.5	234.5658	24.02	-2.76	71736.000	5.0	114354.900	4.0
234.3226	26.02	-4.04	159493.000	3.0	202156.130	2.0	234.5658	27.02	-2.39	130183.800	3.5	172802.700	2.5
234.3278	25.02	-.66	97239.860	6.5	139902.060	5.5	234.5697	10.02	-2.13	314148.000	2.0	356766.200	1.0
234.3304	23.01	-4.84	12545.150	4.0	55206.870	5.0	234.5715	25.01	-3.05	49465.130	3.0	92083.000	3.0
234.3305	27.02	-4.27	128804.900	1.5	171466.600	2.5	234.5734	26.02	-3.69	139827.170	4.0	182444.700	3.0
234.3305	27.02	-4.27	128804.900	1.5	171466.600	2.5	234.5740	26.01	-4.40	66012.830	4.5	108630.240	5.5
234.3305	27.02	-4.76	128804.900	1.5	171466.600	2.5	234.5750	76.00	-.23	4113.534	0.0	46743.823	0.0
234.3320	72.01	.10	6291.287	0.0	48965.783	0.0	234.5796	24.02	-2.92	171186.900	5.0	159803.700	4.0
234.3388	28.01	-1.27	58705.950	1.5	101366.140	2.5	234.5802	26.02	-2.60	93392.450	3.0	136008.740	3.0
234.3398	28.01	-2.28	70748.700	.5	113408.710	1.5	234.5804	28.01	-2.66	56424.490	1.5	99040.750	1.5
234.3410	23.01	-4.87	13511.710	1.0	56171.490	1.0	234.5819	25.01	-1.59	46903.260	2.0	89519.250	2.0
234.3474	28.01	-.13	57420.160	2.5	100078.780	1.5	234.5845	15.01	-2.59	65308.050	3.0	107923.570	2.0
234.3494	28.01	-.61	25036.380	2.5	67694.640	2.5	234.5923	13.01	-2.60	105438.400	1.0	148052.500	1.0
234.3496	26.01	.26	0.000	4.5	42658.230	3.5	234.5934	18.01	-4.93	163506.450	3.5	206132.660	2.5
234.3534	7.01	-1.34	187091.370	2.0	229748.900	3.0	234.5936	26.01	-8.65	23317.600	2.5	65931.460	3.5
234.3551	23.01	-3.50	22273.540	1.0	64930.760	1.0	234.5956	25.01	-2.25	43339.100	2.0	85952.600	3.0
234.3571	26.02	-2.21	89907.850	4.0	132564.710	5.0	234.5960	26.01	-4.08	21812.040	1.5	64425.460	2.5
234.3571	26.02	-2.42	89907.850	5.0	132564.710	5.0	234.6025	25.00	-3.21	23296.670	3.5	65908.920	4.5
234.3572	18.02	-.66	226355.960	2.0	269012.800	2.0	234.6075	25.01	-3.25	39808.140	3.0	82419.480	3.0
234.3610	77.00	.17	5726.684	0.0	48395.899	0.0	234.6126	27.02	-4.94	83938.900	3.5	126549.300	3.5
234.3634	26.02	-3.23	140196.330	7.0	182852.050	7.0	234.6131	25.00	-1.50	25281.040	2.5	67891.360	2.5
234.3636	25.01	-2.16	49427.320	4.0	92083.000	3.0	234.6154	29.02	-1.84	77967.600	2.5	120577.500	2.5
234.3740	76.00	-.02	4113.534	0.0	46780.383	0.0	234.6164	27.00	-1.57	816.000	3.5	43425.710	2.5
234.3752	22.01	-5.04	1087.210	3.5	43740.770	3.5	234.6221	26.01	-2.59	42439.880	.5	85048.560	1.5
234.3796	20.02	-.50	350900.040	2.0	393552.810	3.0	234.6237	27.02	-4.59	83773.400	1.5	126381.800	1.5
234.3814	26.02	-3.22	73727.640	2.0	116380.070	1.0	234.6254	22.01	-4.52	9850.900	.5	52458.980	1.5
234.3827	23.02	-.31	56529.300	.5	99181.500	1.5	234.6267	26.01	-1.06	31999.120	3.5	74606.970	2.5
234.3838	26.01	-3.48	60956.820	3.5	103608.820	4.5	234.6272	26.01	-1.19	42237.050	3.5	84844.810	2.5
234.3860	13.01	-2.98	105438.400	1.0	148090.000	1.0	234.6297	30.02	-.77	257566.100	1.0	300173.400	2.0
234.3860	13.01	-2.50	105438.400	1.0	148090.000	2.0	234.6297	30.02	-1.02	257566.100	1.0	300173.400	1.0
234.3870	28.01	-3.51	58493.210	2.5	101144.630	3.5	234.6312	26.00	-2.44	415.932	3.0	43022.969	4.0
234.3926	15.01	-2.96	65273.180	2.0	107923.570	2.0	234.6325	23.02	-.52	44110.040	2.5	86716.840	1.5
234.3937	25.00	-1.88	23296.670	3.5	65946.870	2.5	234.6349	25.01	-2.29	43696.190	3.0	86302.550	3.0
234.3941	25.00	-4.32	17451.520	2.5	60101.650	2.5	234.6351	22.01	-2.88	10024.740	2.5	52631.070	3.5
234.3947	25.01	-4.68	43339.100	2.0	85989.120	2.0	234.6363	25.01	-1.96	39813.380	2.0	82419.480	3.0
234.3951	28.01	-.84	32499.530	4.5	75149.480	4.5	234.6369	27.01	-4.36	13404.600	1.0	56010.600	2.0
234.3957	26.01	-1.00	2430.080	3.5	45079.910	2.5	234.6373	25.00	-1.32	25285.430	4.5	67891.360	3.5
234.3997	27.02	-3.63	82363.300	4.5	125012.400	4.5	234.6390	28.01	-4.11	78955.450	1.5	121561.060	.5
234.4023	26.00	-6.19	8154.713	1.0	50803.350	2.0	234.6396	17.02	-3.94	179495.200	2.5	222100.700	1.5
234.4030	33.00	-.14	18067.285	0.0	60728.855	0.0	234.6463	18.02	-2.53	196589.200	1.0	239193.480	1.0
234.4044	24.00	-5.04	0.000	3.0	42648.260	3.0	234.6500	25.00	-.37	25287.740	3.5	67891.360	3.5
234.4100	26.01	-2.42	42401.330	1.5	85048.560	1.5	234.6519	26.01	-1.23	42334.860	2.5	84938.130	1.5
234.4158	26.02	-2.96	136532.450	2.0	179178.620	3.0	234.6522	25.01	-1.26	43131.400	2.0	85734.620	3.0
234.4164	25.02	-1.49	90440.500	4.5	133086.570	4.5	234.6522	18.01	-3.24	147503.020	1.5	190106.230	1.5
234.4201	18.01	-.89	157233.930	3.5	199879.320	3.5	234.6528	24.02	-4.76	111854.000	5.0	154457.100	2.0
234.4203	14.01	-4.89	287.320	1.5	42932.680	1.5	234.6544	24.01	-1.57	49351.960	2.5	91954.780	2.5
234.4213	27.00	-4.25	1809.330	1.5	44454.510	.5	234.6571	27.01	-2.49	22414.500	3.0	65016.830	2.0
234.4232	18.02	-1.47	226355.960	2.0	269000.800	3.0	234.6574	18.01	-2.63	158428.030	.5	201030.300	.5
234.4239	28.01	-1.90	67031.020	.5	109675.720	.5	234.6596	26.02	-4.95	93388.750	4.0	135990.620	4.0
234.4247	9.02	-3.91	387367.920	2.5	430012.480	1.5	234.6629	28.00	-.76	1332.153	3.0	43933.428	.0
234.4254	26.02	-4.44	139764.480	2.0	182408.910	3.0	234.6640	26.00	-4.24	7985.783	2.0	50586.857	3.0
234.4278	27.01	-.37	5204.500	1.0	47848.500	1.0	234.6653	29.01	-4.10	88605.160	1.0	131206.000	0.0
234.4280	26.01	-.33	977.030	.5	43620.980	1.5	234.6666	25.00	-3.40	17052.290	4.5	59652.900	5.5
234.4341	25.01	-.97	27588.230	3.0	70231.070	2.0	234.6705	25.00	-3.86	23549.200	2.5	66149.100	3.5
234.4341	24.00	-3.27	8307.570	4.0	50950.420	3.0	234.6734	25.01	-2.39	30795.750	4.0	73395.120	3.0
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WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
234.7593	26.02	-3.23	97041.380	3.0	139625.170	4.0
234.7594	56.01	-0.03	5674.824	0.0	48271.627	0.0
234.7618	26.00	-3.86	11976.239	4.0	54559.560	3.0
234.7638	29.01	-4.11	88362.030	2.0	130945.000	1.0
234.7638	29.01	-3.80	88362.030	2.0	130945.000	2.0
234.7657	27.00	-3.48	816.000	3.5	43398.620	3.5
234.7658	30.02	-0.03	218040.500	3.0	260623.100	4.0
234.7680	27.02	-2.15	83799.600	2.5	126381.800	1.5
234.7706	26.02	-3.19	139827.170	4.0	182408.910	3.0
234.7713	30.02	-1.51	218041.500	4.0	260623.100	4.0
234.7722	26.02	-4.06	136612.780	4.0	179194.220	4.0
234.7730	17.02	-1.17	205946.900	2.5	248528.200	1.5
234.7820	25.00	-3.25	23296.670	3.5	65876.340	3.5
234.7825	18.02	-1.78	196613.910	2.0	239193.480	1.0
234.7835	25.01	-2.37	39808.140	3.0	82387.530	3.0
234.7847	24.01	-2.82	35356.060	1.5	77935.240	2.5
234.7970	74.00	-1.11	3306.958	0.0	45896.940	0.0
234.7980	23.01	-4.28	13594.730	2.0	56171.490	1.0
234.7982	25.00	-3.86	23296.670	3.5	65873.400	2.5
234.8005	10.01	-1.93	280947.100	1.5	323523.410	2.5
234.8096	25.01	-2.38	49465.130	3.0	92039.800	2.0
234.8102	26.01	-1.24	21711.890	3.5	64286.440	3.5
234.8116	26.01	-0.28	1872.600	4.5	44446.890	3.5
234.8118	26.00	-6.75	6928.266	5.0	49502.530	5.0
234.8124	25.01	-2.88	39813.380	2.0	82387.530	3.0
234.8160	25.00	-4.59	17568.480	1.5	60141.980	.5
234.8177	24.01	-2.80	30143.720	5.5	72716.910	4.5
234.8220	3.00	-3.09	0.000	0.0	42585.448	0.0
234.8242	26.01	-2.67	25428.800	5.5	68000.820	4.5
234.8245	23.02	-0.51	44646.960	4.5	87218.920	3.5
234.8262	24.01	-2.60	30864.610	2.5	73436.170	2.5
234.8265	30.02	-0.13	218041.500	4.0	260613.100	5.0
234.8290	26.02	-4.48	143883.740	5.0	186454.890	5.0
234.8300	26.01	-0.10	667.640	2.5	43238.610	2.5
234.8333	26.01	-2.61	42114.790	4.5	84685.160	3.5
234.8337	26.02	-2.34	73849.100	1.0	116419.390	2.0
234.8397	22.01	-2.39	4897.600	3.5	47466.800	3.5
234.8409	9.01	-3.18	246654.740	0.0	289223.730	1.0
234.8487	23.01	-5.30	20980.920	2.0	63548.500	1.0
234.8519	28.01	-1.83	72375.420	1.5	114942.420	1.5
234.8606	22.01	-4.43	1215.580	4.5	43780.990	4.5
234.8610	4.00	-0.13	0.000	0.0	42578.376	0.0
234.8621	28.01	-0.07	73903.250	.5	116468.400	1.5
234.8637	24.00	-8.53	0.000	3.0	42564.850	4.0
234.8653	26.01	-3.11	36126.410	1.5	78690.980	2.5
234.8710	29.01	-0.95	73101.870	1.0	115665.400	1.0
234.8733	28.00	-3.39	204.786	3.0	42767.900	3.0
234.8810	9.01	-2.53	246662.010	1.0	289223.730	1.0
234.8820	18.01	-2.86	157673.320	2.5	200234.860	2.5
234.8830	25.01	-1.04	27589.030	2.0	70150.390	1.0
234.8844	27.02	-2.22	55729.200	3.5	98290.300	4.5
234.8907	24.01	-4.87	30156.940	3.5	72716.910	4.5
234.8917	26.01	-1.81	41968.110	5.5	84527.890	4.5
234.8930	24.00	-1.60	8095.210	3.0	50654.760	2.0
234.9181	28.01	-0.17	74283.330	.5	116838.330	1.5
234.9214	27.02	-3.62	128524.900	2.5	171079.300	3.5
234.9214	27.02	-3.62	128524.900	2.5	171079.300	3.5
234.9214	27.02	-4.69	128524.900	2.5	171079.300	3.5
234.9224	25.01	-0.83	44315.170	6.0	86869.390	6.0
234.9268	25.00	-1.27	25265.740	5.5	67819.170	4.5
234.9308	26.02	-3.77	139827.170	4.0	182379.860	5.0
234.9308	26.01	-2.12	50142.930	2.5	92695.620	2.5
234.9340	44.00	-0.24	1129.205	0.0	43694.351	0.0
234.9343	28.01	-1.53	58705.950	1.5	101258.010	1.5
234.9390	75.00	-0.03	14518.354	0.0	57082.594	0.0
234.9402	26.02	-4.32	137209.730	4.0	179760.720	3.0
234.9479	23.02	-3.64	98383.530	2.5	140933.140	3.5
234.9497	27.00	-3.84	3482.820	4.5	46032.100	4.5
234.9519	25.01	-3.17	36364.300	1.0	78913.170	2.0
234.9545	28.02	-2.27	97996.300	3.0	140544.700	3.0
234.9554	26.02	-3.01	137209.730	4.0	179757.980	4.0
234.9577	28.01	-2.84	93528.440	3.5	136076.260	4.5
234.9604	24.01	-3.42	30864.610	2.5	73411.940	1.5
234.9611	23.02	-2.07	99440.100	2.5	141987.320	3.5
234.9634	25.02	-3.34	134638.390	1.5	177185.180	.5
234.9638	23.01	-2.84	25191.080	2.0	67737.800	2.0
234.9792	26.02	-2.04	82410.940	2.0	124954.880	1.0
234.9792	23.02	-0.28	56529.300	.5	99073.230	.5
234.9840	33.00	.78	10485.478	0.0	53041.567	0.0
234.9891	28.01	-1.71	70635.460	2.5	113177.610	3.5
234.9920	9.01	-2.38	246682.100	2.0	289223.730	1.0
234.9931	28.01	-0.63	58705.950	1.5	101247.370	2.5
234.9968	22.01	-3.19	9930.740	1.5	52471.480	2.5
234.9971	15.01	-2.90	87125.400	2.0	129666.100	2.0
234.9975	24.01	-2.17	35569.020	2.5	78109.640	1.5
234.9998	28.01	-0.15	58705.950	1.5	101246.160	.5
235.0075	24.00	-7.34	0.000	3.0	42538.810	3.0
235.0096	26.02	-2.93	137209.730	4.0	179748.170	5.0
235.0106	25.00	-4.60	17451.520	2.5	59989.770	1.5
235.0136	24.01	-3.43	11962.000	.5	54499.700	1.5
235.0153	28.01	-1.00	74300.930	1.5	116838.330	1.5
235.0154	26.02	-3.54	159493.000	3.0	202030.380	3.0
235.0167	29.01	-2.38	73101.870	1.0	115639.020	2.0
235.0174	14.01	-4.97	287.320	1.5	42824.350	.5
235.0186	26.01	-0.18	42401.330	1.5	84938.130	1.5
235.0211	27.00	-2.74	5075.830	1.5	47612.180	1.5
235.0230	76.01	1.35	5565.369	0.0	48114.396	0.0
235.0231	26.01	-2.14	42334.860	2.5	84870.840	2.5
235.0260	28.01	-2.04	53037.930	2.5	95573.390	3.5
235.0281	9.02	-1.18	389525.550	1.5	432060.640	1.5
235.0290	27.00	-1.24	4690.180	2.5	47225.110	3.5
235.0348	10.01	-2.67	280989.530	1.5	323523.410	2.5
235.0355	25.00	-4.22	25285.430	4.5	67819.170	4.5
235.0359	26.02	-4.65	139846.180	6.0	182379.860	5.0
235.0387	25.00	-3.85	17568.480	1.5	60101.650	2.5
235.0396	23.02	-2.29	99181.500	1.5	141714.500	2.5
235.0402	24.00	-2.10	8985.210	3.0	50628.110	3.0
235.0411	26.00	-2.35	0.000	4.0	42532.729	3.0
235.0418	26.00	-2.38	6928.266	5.0	49460.876	5.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
235.0423	18.01	-2.04	170400.940	2.5	212933.460	2.5
235.0480	25.02	-2.79	90440.500	4.5	132971.990	3.5
235.0483	25.00	-1.40	25287.740	3.5	67819.170	4.5
235.0486	18.01	-0.92	170400.940	2.5	212933.460	2.5
235.0508	26.02	-3.97	73849.100	1.0	116380.070	1.0
235.0520	25.02	-0.97	71564.210	1.5	114094.970	1.5
235.0529	23.01	-1.84	22273.540	1.0	64804.130	2.0
235.0543	25.02	-0.47	90746.060	5.5	133276.400	4.5
235.0602	27.00	-2.29	4142.660	3.5	46671.940	2.5
235.0623	28.02	-2.63	71841.900	1.0	114370.800	2.0
235.0659	22.01	-4.19	9930.740	1.5	52458.980	1.5
235.0758	26.01	-2.25	42658.230	3.5	85184.690	4.5
235.0828	22.01	-8.07	1215.580	4.5	43740.770	3.5
235.0846	28.01	-2.07	13550.390	3.5	56075.260	2.5
235.0847	25.01	-3.53	43536.900	4.0	86061.750	3.0
235.0856	25.02	-2.83	135861.320	1.5	178388.000	.5
235.0905	30.02	-1.48	260418.100	2.0	302941.900	2.0
235.0905	30.02	-0.33	260418.100	2.0	302941.900	3.0
235.0992	8.01	-3.60	233544.090	1.5	276066.300	1.5
235.0992	8.01	-2.32	233544.090	1.5	276066.300	2.5
235.1057	26.02	-1.96	82382.870	3.0	124903.920	2.0
235.1184	25.02	-4.96	133751.500	3.5	176270.250	2.5
235.1186	20.00	-1.48	0.000	0.0	42518.708	1.0
235.1198	24.02	-3.94	111375.000	3.0	153893.500	2.0
235.1201	26.01	-0.03	21430.390	5.5	63948.840	4.5
235.1209	28.01	-2.19	70706.770	1.5	113225.060	.5
235.1220	72.01	-0.28	0.000	0.0	42531.112	0.0
235.1241	26.02	-4.05	147161.360	4.0	189679.070	3.0
235.1248	23.02	-3.35	56922.500	2.5	99440.100	2.5
235.1253	27.02	-3.16	128017.700	3.5	170535.200	4.5
235.1253	27.02	-3.16	128017.700	3.5	170535.200	4.5
235.1330	44.00	.09	2016.438	0.0	44545.560	0.0
235.1355	26.02	-2.97	73849.100	1.0	116364.760	0.0
235.1363	20.02	-2.13	281139.550	1.0	323655.060	2.0
235.1378	25.02	-3.58	133949.540	4.5	176464.780	3.5
235.1389	27.00	-1.26	1406.840	2.5	43921.890	2.5
235.1425	30.02	-1.63	257678.700	2.0	300193.100	2.0
235.1425	30.02	-0.46	257678.700	2.0	300193.100	3.0
235.1443	24.01	-4.29	46823.640	.5	89337.700	1.5
235.1447	24.02	-3.99	115552.700	3.0	158066.700	3.0
235.1532	23.02	-0.25	56669.050	1.5	99181.500	1.5
235.1536	24.00	-4.21	7593.160	2.0	50105.540	1.0
235.1540	15.01	-4.00	86598.300	0.0	129110.600	1.0
235.1550	76.00	-0.41	10082.190	0.0	52607.333	0.0
235.1616	25.02	-2.20	94771.470	2.5	137282.400	2.5
235.1634	25.01	-4.46	64456.330	2.0	106966.940	2.0
235.1671	26.01	-0.04	42334.860	2.5	84844.810	2.5
235.1691	18.02	-1.28	226503.220	3.0	269012.800	2.0
235.1720	76.00	-0.34	11292.053	0.0	53814.122	0.0
235.1730	24.00	-2.70	7593.160	2.0	50102.040	3.0
235.1779	28.02	-4.70	140544.700	3.0	183052.700	4.0
235.1784	28.02	-3.74	76237.800	3.0	118745.700	3.0
235.1797	26.01	-1.27	50187.950	3.5	92695.620	2.5
235.1841	27.01	-0.18	25317.720	1.0	67824.600	2.0
235.1877	25.01	-4.53	64456.330	2.0	106962.560	1.0
235.1889	26.00	-3.56	704.003	2.0	43210.011	2.0
235.1896	26.00	-2.65	6928.266	5.0	94934.142	6.0
235.1962	24.01	-2.05	40415.340	.5	82920.030	1.5
235.1971	27.00	-2.95	1406.840	2.5	43911.360	1.5
235.2050	28.01	-0.14	74283.330	.5	116780.420	.5
235.2070	75.00	.30	11534.025	0.0	54049.766	0.0
235.2093	25.00	-4.63	17282.000	3.5	59784.310	3.5
235.2172	27.02	-3.59	82920.700	3.5	125421.600	4.5
235.2173	28.01	-3.64	78955.450	1.5	121456.320	1.5
235.2181	23.01	-0.55	12706.150	6.0	55206.870	5.0
235.2188	15.01	-3.32	87125.400	2.0	129626.000	1.0
235.2210	27.01	.20	22414.500	3.0	64914.710	2.0
235.2222	28.01	-3.64	52205.950	3.5	94705.930	3.5
235.2238	24.02	-3.17	116532.100	3.0	159031.800	2.0
235.2318	26.01	.18	42439.880	.5	84938.130	1.5
235.2339	24.01	-3.64	30219.040	4.5	72716.910	4.5
235.2355	18.02	-0.34	226503.220	3.0	269000.800	3.0
235.2361	25.01	-2.01	47073.560	3.0	89571.030	3.0
235.2361	10.01	-2.55	281025.940	2.5	323523.410	2.5
235.2415	26.02	-2.74	115570.200	4.0	158066.700	3.0
235.2421	17.02	-1.75	201332.000	1.5	243828.400	2.5
235.2437	26.02	-1.94	93512.640	4.0	136008.740	3.0
235.2467	22.01	-3.78	9975.920	1.5	52471.480	2.5
235.2470	45.00	-1.25	0.000	0.0	42508.512	0.0
235.2487	26.02	-3.97	143883.740	5.0	186378.940	4.0
235.2515	30.02	-0.95	257678.700	2.0	300173.400	2.0
235.2515	30.02	-1.91	257678.700	2.0	300173.400	1.0
235.2524	26.01	-4.99	26932.740	.5	69427.270	.5
235.2554	25.01	-2.37	43696.190	3.0	86190.180	2.0
235.2564	25.01	-4.02	64473.130	3.0	106966.940	2.0
235.2610	26.02	-1.65	82410.940	2.0	124903.920	2.0
235.2610	42.00	-0.06	12259.943	0.0	54769.926	0.0
235.2620	77.00	-0.23	12098.628	0.0	54604.430	0.0
235.2650	79.00	-0.81	9114.300	0.0	51619.560	0.0
235.2673	24.01	-3.63	30156.940	3.5	72648.790	3.5
235.2818	10.01	-2.59	281025.940	2.5	323515.170	3.5
235.2865	27.00	-0.64	3482.820	4.5	45971.190	3.5
235.2910	10.01	-2.33	281025.940	2.5	323513.500	3.5
235.2936	25.00	.03	25265.740	5.5	67752.840	5.5
235.2990	76.00	.29	8630.355	0.0	51129.473	0.0
235.2999	28.01	-2.37	56075.260	2.5	98561.220	2.5
235.3020	72.00	-1.25	0.000	0.0	42498.576	0.0
235.3025	28.01	-2.10	74300.930	1.5	116786.420	.5
235.3108	14.01	.19	114327.210	2.5	156811.200	3.5
235.3157	23.01	-4.22	8640.210	2.0	51123.310	2.0
235.3159	22.01	-3.69	9975.920	1.5	52458.980	1.5
235.3180	26.01	-1.12	50212.930	2.5	92695.620	2.5
235.3291	24.01	-2.98	12303.980	3.5	54784.670	3.5
235.3295	23.00	-1.52	0.000	1.5	42480.620	.5
235.3314	25.02	-4.59	134789.080	.5	177269.340	1.5
235.3362	17.01	-4.98	128729.800	3.0	171209.200	2.0
235.3367	27.00	-0.78	816.000	3.5	43295.320	.5
235.3396	28.01	-2.60	57080.550	3.5	99559.330	2.5
235.3422	18.01	-1.72	157673.320	2.5	200151.640	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
235.3429	27.01	.06	4560.800	3.0	47039.000	3.0	235.6058	17.02	-4.91	174093.800	1.5	216524.600	2.5
235.3441	26.02	-1.70	93512.640	4.0	135990.620	4.0	235.6068	18.02	-3.35	225402.590	3.0	267833.200	4.0
235.3451	24.02	-2.05	131448.800	5.0	173926.600	6.0	235.6083	28.01	-3.43	78955.450	1.5	121385.800	1.5
235.3453	24.01	-2.90	12148.000	2.5	54625.760	2.5	235.6116	24.01	-2.80	30219.040	4.5	72648.790	3.5
235.3489	25.01	-4.09	64473.130	3.0	106950.240	3.0	235.6124	17.01	-3.58	128621.900	1.0	171051.500	1.0
235.3490	14.01	-.87	83802.210	.5	126279.300	.5	235.6184	26.00	-3.87	18378.187	2.0	60806.720	3.0
235.3495	23.03	-1.94	222794.600	2.0	265271.600	3.0	235.6197	26.02	-2.27	141002.990	4.0	183431.280	5.0
235.3523	26.02	-2.97	83161.480	4.0	125637.980	3.0	235.6199	10.01	-3.91	276511.820	.5	318940.080	1.5
235.3531	28.01	-2.22	70748.700	.5	113225.060	.5	235.6202	30.02	-2.33	257796.000	5.0	300224.200	4.0
235.3570	26.00	-4.18	7376.762	4.0	49850.610	3.0	235.6202	30.02	-4.69	257796.000	5.0	300224.200	5.0
235.3683	26.01	-.05	42237.050	3.5	84710.660	3.5	235.6206	26.01	-2.74	20516.980	2.5	62945.120	3.5
235.3743	26.01	-2.28	22637.190	4.5	65109.710	3.5	235.6206	26.00	-5.29	7376.762	4.0	49804.900	3.0
235.3764	25.00	-3.37	23296.670	3.5	65768.810	4.5	235.6263	25.02	-1.17	71564.210	1.5	113991.310	.5
235.3817	20.02	-3.69	328588.760	3.0	371059.950	3.0	235.6272	27.00	-2.19	816.000	3.5	43242.950	2.5
235.3818	26.02	-1.34	82382.870	3.0	124854.040	3.0	235.6296	14.01	.42	114529.200	4.5	156955.700	5.5
235.3827	26.00	-5.70	7985.783	2.0	50458.790	3.0	235.6306	14.02	-3.98	214989.270	2.0	257415.600	1.0
235.3845	26.01	-3.12	61512.670	4.5	103983.350	3.5	235.6306	14.02	-2.80	214989.270	2.0	257415.600	2.0
235.3860	73.01	.69	5242.739	0.0	47726.149	0.0	235.6306	14.02	-2.06	214989.270	2.0	257415.600	3.0
235.3910	26.01	-2.91	42401.330	1.5	84870.840	2.5	235.6319	30.02	-4.09	211725.500	2.0	254151.600	2.0
235.3966	29.01	-3.35	71531.500	3.0	114000.000	3.0	235.6344	24.00	-4.96	7593.160	2.0	50018.800	1.0
235.4027	25.00	-1.45	25285.430	4.5	67752.640	5.5	235.6374	30.02	-3.11	257796.000	5.0	300221.100	6.0
235.4050	24.01	-2.98	12032.720	1.5	54499.700	1.5	235.6374	30.02	-1.02	257796.000	5.0	300221.100	5.0
235.4131	18.01	-2.53	157673.320	2.5	200138.850	3.5	235.6403	28.01	-.80	14995.570	2.5	57420.160	2.5
235.4187	28.01	-2.39	77332.470	2.5	119796.980	2.5	235.6415	20.02	-4.20	328090.990	2.0	370515.360	3.0
235.4191	24.00	-3.91	7593.160	2.0	50057.610	2.0	235.6419	26.01	-1.91	22409.820	.5	64834.120	1.5
235.4199	27.00	-2.27	8460.810	2.5	50925.110	1.5	235.6444	20.02	-1.35	348028.130	3.0	390451.970	3.0
235.4200	39.00	-.76	483.945	0.0	42961.220	0.0	235.6500	75.00	-.13	11695.340	0.0	54131.156	0.0
235.4307	24.00	-1.22	8095.210	3.0	50557.560	4.0	235.6573	24.01	-1.88	35356.060	1.5	77777.580	.5
235.4437	26.02	-1.94	82494.880	1.0	124954.880	1.0	235.6600	26.02	-4.42	137209.730	4.0	179630.770	4.0
235.4437	26.01	-1.59	50142.930	2.5	92602.940	3.5	235.6605	14.02	-2.89	214994.650	1.0	257415.600	2.0
235.4475	26.01	-.12	21581.640	4.5	64040.960	3.5	235.6605	14.02	-2.41	214994.650	1.0	257415.600	2.0
235.4477	15.01	-1.37	88894.000	1.0	131353.300	2.0	235.6632	20.02	-.30	348051.860	4.0	390472.320	5.0
235.4506	26.00	-5.01	7728.058	3.0	50186.814	2.0	235.6641	29.01	-2.17	23998.220	1.0	66418.520	2.0
235.4552	23.02	-1.99	99073.230	.5	141531.170	1.5	235.6650	14.02	-2.68	214995.460	0.0	257415.600	1.0
235.4585	24.01	-2.45	34813.060	5.5	77270.400	4.5	235.6661	20.02	-2.21	348051.860	4.0	390471.790	4.0
235.4610	74.00	-.14	6129.972	0.0	48599.850	0.0	235.6736	24.02	-3.81	57422.100	4.0	99840.700	3.0
235.4637	25.01	-2.31	64493.830	4.0	106950.240	3.0	235.6750	90.01	-.92	0.000	0.0	42431.314	0.0
235.4655	24.01	-3.16	11962.000	.5	54418.080	.5	235.6761	24.01	-2.67	30298.770	5.5	72716.910	4.5
235.4662	23.01	-1.81	11295.510	0.0	53751.460	1.0	235.6777	25.00	-3.65	17052.290	4.5	59470.140	3.5
235.4663	25.02	-.84	71831.980	2.5	114287.910	2.5	235.6797	25.01	-1.32	29889.310	3.0	72306.810	2.0
235.4687	24.02	-3.79	115181.800	2.0	157637.300	3.0	235.6865	28.00	-.70	204.786	3.0	42621.048	3.0
235.4761	26.02	-3.24	141002.990	4.0	183457.150	4.0	235.6897	25.01	-3.77	43536.900	4.0	85952.600	3.0
235.4788	18.01	-.83	172213.800	1.5	214667.480	2.5	235.6900	73.01	.49	4355.506	0.0	46784.120	0.0
235.4789	9.02	-3.13	413195.000	2.5	455648.670	1.5	235.6902	7.01	-1.01	187491.900	3.0	229907.500	4.0
235.4809	28.02	-1.67	71841.900	1.0	114295.200	0.0	235.6936	26.01	-1.34	50187.950	3.5	92602.940	3.5
235.4817	20.02	-3.39	328606.780	2.0	371059.950	3.0	235.6943	24.01	-1.73	25033.950	3.5	67448.820	4.5
235.4840	50.00	.40	1613.150	0.0	44078.880	0.0	235.6997	26.01	-1.10	33501.320	3.5	75915.210	2.5
235.4874	25.01	-4.24	43850.420	2.0	86302.550	3.0	235.7041	26.01	-1.13	42114.790	4.5	84527.890	4.5
235.4886	26.01	-4.15	61156.900	3.5	103608.820	4.5	235.7063	25.00	-1.78	23549.200	2.5	65961.900	1.5
235.4887	26.01	-1.27	2837.940	2.5	45289.840	1.5	235.7100	78.00	-.56	725.918	0.0	43150.932	0.0
235.4895	26.02	-3.29	137209.730	4.0	179661.480	3.0	235.7170	28.01	-4.00	68709.760	.5	111120.560	1.5
235.4908	25.01	-3.63	29869.110	2.0	72320.620	1.0	235.7180	14.01	.08	14265.700	1.5	156676.300	5.5
235.4921	28.01	-2.27	53601.190	1.5	96052.480	2.5	235.7231	28.01	-3.04	92373.450	2.5	134783.140	2.5
235.4926	7.01	-2.56	187491.900	3.0	229943.100	4.0	235.7250	76.00	.11	8630.355	0.0	51052.669	0.0
235.4943	25.02	-3.53	136888.700	1.5	179339.590	2.5	235.7264	28.01	-2.44	73903.250	.5	116312.340	1.5
235.4953	10.01	-2.17	281720.280	1.5	324170.990	2.5	235.7267	26.02	-2.59	82494.880	1.0	124903.920	2.0
235.4995	25.00	-4.84	17282.000	3.5	59731.940	4.5	235.7291	24.02	-3.12	116967.000	4.0	159375.600	3.0
235.5000	77.00	.38	9759.560	0.0	52222.405	0.0	235.7300	73.00	-.72	0.000	0.0	42421.414	0.0
235.5015	29.01	-.89	67916.390	1.0	110365.980	2.0	235.7357	26.02	-2.38	89697.520	3.0	132104.940	2.0
235.5025	27.02	-2.55	56373.800	2.5	98823.200	2.5	235.7510	27.00	-1.78	7442.410	3.5	49847.080	2.5
235.5051	28.00	-2.92	204.786	3.0	42653.723	2.0	235.7537	23.02	-.96	56669.050	1.5	99073.230	.5
235.5081	27.02	-3.88	82920.700	3.5	125369.100	2.5	235.7594	18.01	-.76	170530.310	3.5	212933.960	2.5
235.5097	26.01	-2.34	42237.050	3.5	84685.160	3.5	235.7625	27.02	-3.81	82363.300	4.5	124765.900	5.5
235.5113	24.01	-2.34	34631.140	4.5	77078.960	5.5	235.7643	26.02	-3.96	157982.000	3.0	200384.280	3.0
235.5157	28.01	-4.06	79823.030	3.5	122270.050	3.5	235.7692	25.01	-.97	29919.220	2.0	72320.620	1.0
235.5173	22.01	-3.72	10024.740	2.5	52471.480	2.5	235.7763	26.02	-2.78	83237.860	3.0	125637.980	3.0
235.5201	24.01	-3.98	46823.640	.5	89269.880	.5	235.7763	20.02	-2.89	348051.860	4.0	390451.970	3.0
235.5210	26.01	-2.07	18886.750	.5	61332.820	1.5	235.7781	27.02	-3.99	130183.800	3.5	172583.600	3.5
235.5215	26.01	-.61	21430.390	5.5	63876.380	5.5	235.7781	27.02	-3.99	130183.800	3.5	172583.600	3.5
235.5220	42.00	-.13	11050.080	0.0	53508.959	0.0	235.7781	27.02	-3.74	130183.800	3.5	172583.600	3.5
235.5223	18.01	-3.82	157233.930	3.5	199679.760	2.5	235.7798	28.01	-3.94	70778.120	3.5	113177.610	3.5
235.5231	25.01	-1.85	47073.560	3.0	89519.250	2.0	235.7802	25.02	-1.35	94397.200	3.5	136796.610	2.5
235.5238	23.01	-3.08	8640.210	2.0	51085.770	3.0	235.7815	23.01	-.64	23391.090	5.0	65790.280	4.0
235.5251	26.01	-1.95	50157.610	4.5	92602.940	3.5	235.7864	24.02	-4.85	115843.500	6.0	158241.800	5.0
235.5254	26.01	-2.72	20516.980	2.5	62962.260	1.5	235.7899	25.00	-1.31	23549.200	2.5	65946.870	2.5
235.5269	15.01	-3.49	87125.400	2.0	129570.040	1.0	235.7900	50.00	-.88	8549.697	0.0	50960.317	0.0
235.5280	76.01	.91	3871.561	0.0	46329.358	0.0	235.7926	28.01	-4.78	75917.630	3.5	118314.820	2.5
235.5319	26.02	-2.65	73935.960	0.0	116380.070	1.0	235.7927	26.02	-3.74	136797.050	3.0	179194.220	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
235.8665	17.01	-3.11	128621.900	1.0	171005.800	2.0	236.0846	9.02	-2.34	348702.800	.5	391047.540	.5
235.8679	27.00	-1.28	816.000	3.5	43199.650	2.5	236.0872	24.01	-2.42	25035.640	.5	67379.920	1.5
235.8691	24.00	-4.51	20519.600	6.0	62903.030	6.0	236.0877	24.01	-2.90	25043.100	1.5	67387.300	2.5
235.8733	23.02	.38	49327.740	2.5	91710.430	3.0	236.0899	10.01	-2.38	281171.380	2.5	323515.170	3.5
235.8749	26.02	-4.54	89697.520	3.0	132079.910	3.0	236.0912	26.02	-4.70	157982.000	3.0	200325.560	4.0
235.8795	26.02	-4.67	136797.050	3.0	179178.620	3.0	236.0927	17.01	-3.25	128662.500	2.0	171005.800	2.0
235.8810	74.01	-.19	3145.643	0.0	45539.901	0.0	236.0975	20.02	-3.05	327962.110	1.0	370304.540	2.0
235.8815	24.01	-2.01	32603.730	2.5	74984.930	1.5	236.0993	10.01	-3.09	281171.380	2.5	323513.500	3.5
235.8854	28.00	-.83	204.786	3.0	42585.296	4.0	236.1044	11.02	-3.62	418418.100	1.5	460759.300	.5
235.8901	25.01	-2.78	39813.380	2.0	82193.040	2.0	236.1068	20.02	-2.77	348051.860	4.0	390392.620	3.0
235.8910	18.02	-1.66	225402.590	3.0	267782.100	3.0	236.1083	25.02	-2.05	90746.060	5.5	133086.570	4.5
235.8920	3.00	-2.98	0.000	0.0	42392.281	0.0	236.1090	73.00	-.45	1935.780	0.0	44289.100	0.0
235.8933	9.02	-2.71	425390.010	.5	467769.110	.5	236.1096	24.01	-2.30	25047.040	2.5	67387.300	2.5
235.8937	26.01	-1.99	30764.460	3.5	73143.480	3.5	236.1111	11.05	-1.16	1005068.000	1.0	1047408.000	2.0
235.8979	25.01	-2.72	29869.110	2.0	72247.380	3.0	236.1112	25.02	-4.86	136888.700	1.5	179228.690	1.5
235.8999	25.01	-2.60	38901.800	4.0	81279.710	4.0	236.1120	29.01	-4.41	88605.160	1.0	130945.000	1.0
235.9048	25.02	-1.72	71831.980	2.5	114209.010	3.5	236.1120	29.01	-3.75	88605.160	1.0	130945.000	2.0
235.9075	28.01	-3.28	75917.630	3.5	118294.170	3.5	236.1124	25.01	-2.36	43850.420	2.0	86190.180	2.0
235.9106	26.01	-.46	862.630	1.5	43238.610	2.5	236.1128	30.02	.00	260613.100	5.0	302952.800	6.0
235.9116	26.01	.54	42334.860	2.5	84710.660	3.5	236.1128	30.02	-1.81	260613.100	5.0	302952.800	5.0
235.9116	22.03	.87	236125.300	2.5	278501.100	3.5	236.1190	8.02	-3.01	324462.460	2.0	366801.040	3.0
235.9127	26.01	-.25	21711.890	3.5	64087.500	2.5	236.1195	30.02	-.25	218540.300	2.0	260878.800	3.0
235.9133	24.02	-2.02	70980.200	1.0	113355.700	2.0	236.1234	27.02	-4.23	128017.700	3.5	170355.500	2.5
235.9160	26.00	-2.35	704.003	2.0	43079.013	1.0	236.1238	26.02	-3.15	137423.000	3.0	179760.720	3.0
235.9160	73.01	1.01	9678.902	0.0	52066.871	0.0	236.1278	24.00	-3.80	7927.470	2.0	50264.480	3.0
235.9180	45.00	-1.10	1451.835	0.0	43839.444	0.0	236.1288	24.01	-3.04	25043.100	1.5	67379.920	1.5
235.9254	24.00	-2.56	7810.820	1.0	50184.100	2.0	236.1307	26.02	-4.72	137423.000	3.0	179759.490	2.5
235.9258	29.01	-3.67	95565.650	4.0	137938.900	4.0	236.1356	26.01	-1.98	27314.930	3.5	69650.540	2.5
235.9370	23.02	-3.30	98825.190	3.5	141196.430	2.5	236.1361	8.01	-3.93	233544.090	1.5	275879.600	2.5
235.9373	9.01	-4.70	235150.580	2.0	277521.780	2.0	236.1391	26.02	-2.26	137423.000	3.0	179757.980	4.0
235.9381	9.02	-1.52	415184.120	.5	457555.170	1.5	236.1446	27.02	-4.71	130799.500	.5	173133.500	1.5
235.9386	25.01	-1.47	29951.120	1.0	72322.070	0.0	236.1508	24.01	-2.92	25047.040	2.5	67379.920	1.5
235.9394	30.02	-2.89	260613.100	5.0	302983.900	4.0	236.1513	25.00	-4.38	17451.520	2.5	59784.310	3.5
235.9394	30.02	-1.16	260613.100	5.0	302983.900	5.0	236.1524	27.01	-1.29	5204.500	1.0	47537.100	2.0
235.9433	26.02	-2.59	137209.730	4.0	179579.830	5.0	236.1526	14.03	-2.87	293718.990	2.5	336051.550	2.5
235.9459	28.01	-3.97	78955.450	1.5	121325.090	2.5	236.1526	14.03	-1.57	293718.990	3.5	336051.550	2.5
235.9461	26.01	-5.72	26932.740	.5	69302.350	1.5	236.1526	14.03	-1.72	293718.990	2.5	336051.550	1.5
235.9467	25.01	-1.92	29951.120	1.0	72320.620	1.0	236.1557	29.02	-2.49	80305.200	1.5	122637.200	.5
235.9478	15.01	-4.19	87805.000	2.0	130174.300	2.0	236.1686	30.02	-.08	260623.100	4.0	302952.800	5.0
235.9517	22.03	.98	236132.500	3.5	278501.100	4.5	236.1721	26.01	-.73	21711.890	3.5	64040.960	3.5
235.9517	22.03	-.56	236132.500	3.5	278501.100	3.5	236.1747	26.01	-.38	41968.110	5.5	84296.700	5.5
235.9550	24.01	-4.80	31117.590	2.5	73485.600	3.5	236.1768	25.02	-3.68	136823.860	3.5	179152.090	3.5
235.9588	25.01	-3.74	64518.570	5.0	106885.900	4.0	236.1771	25.01	-.34	29919.220	2.0	72247.380	3.0
235.9590	23.02	-2.64	98383.530	2.5	140750.820	2.5	236.1800	24.01	-1.59	35607.600	3.5	77935.240	2.5
235.9594	9.01	-4.93	235150.580	2.0	277517.800	3.0	236.1816	18.01	-2.58	159393.310	1.5	201720.670	1.5
235.9595	26.01	-.50	21581.640	4.5	63948.840	4.5	236.1823	26.01	-3.38	30764.460	3.5	73091.700	4.5
235.9636	25.01	-3.22	39826.570	1.0	82193.040	2.0	236.1828	25.00	-3.26	23549.200	2.5	65876.340	3.5
235.9650	24.01	-2.53	35569.020	2.5	77935.240	2.5	236.1828	18.01	-4.76	148842.370	2.5	191169.520	1.5
235.9650	25.02	-3.26	94771.470	2.5	137137.690	1.5	236.1920	45.00	-.55	0.000	0.0	42338.437	0.0
235.9650	17.02	-.02	216524.600	2.5	258890.800	1.5	236.1941	26.00	-2.81	11976.239	4.0	54301.360	4.0
235.9652	25.00	-4.87	17451.520	2.5	59817.700	2.5	236.1941	26.00	-2.06	11976.239	4.0	54301.360	4.0
235.9667	15.01	-3.77	86744.700	1.0	129110.600	1.0	236.1992	25.00	-4.23	23549.200	2.5	65873.400	2.5
235.9682	26.02	-4.35	137527.920	4.0	179893.560	5.0	236.2012	23.02	-1.23	105282.650	2.5	147606.500	3.5
235.9686	25.01	-2.82	43696.190	3.0	86061.750	3.0	236.2018	26.01	-.91	2430.080	3.5	44753.820	3.5
235.9734	27.02	-2.83	91715.100	2.5	134079.800	1.5	236.2028	24.01	-3.92	31083.110	1.5	73406.680	.5
235.9745	20.02	-4.15	348028.130	3.0	390392.620	3.0	236.2059	9.02	-2.13	389737.630	.5	432060.640	1.5
235.9753	24.01	-3.33	46905.520	1.5	89269.880	.5	236.2069	28.00	-1.27	1332.153	3.0	43654.974	3.0
235.9823	25.01	-1.61	31022.050	0.0	73385.150	1.0	236.2119	26.01	-5.22	20340.360	5.5	62662.300	5.5
235.9867	28.01	-.36	57080.550	3.5	99442.860	4.5	236.2122	26.00	-3.31	888.132	1.0	43210.011	2.0
235.9882	23.00	-3.30	0.000	1.5	42362.040	.5	236.2128	24.01	-3.30	12303.980	3.5	54625.760	2.5
235.9887	25.01	-3.28	52718.800	0.0	95080.760	1.0	236.2188	25.00	-3.50	23296.670	3.5	65617.370	3.5
235.9929	17.02	-1.16	216524.600	2.5	258885.800	2.5	236.2194	9.02	-1.14	415394.510	1.5	57715.100	2.5
235.9949	26.01	-3.14	36126.410	1.5	78467.250	1.5	236.2197	24.00	-1.12	8307.570	4.0	50628.110	3.0
235.9951	30.02	-2.89	260623.100	4.0	302983.900	5.0	236.2244	17.02	-3.19	179781.000	.5	222100.700	1.5
235.9951	30.02	-1.25	260623.100	4.0	302983.900	4.0	236.2246	24.01	-2.89	25033.950	3.5	67353.600	4.5
235.9956	9.02	-1.60	349266.200	3.5	391626.910	3.5	236.2284	23.02	-4.05	98825.190	3.5	141144.170	4.5
235.9972	25.02	-4.54	135116.800	1.5	177477.230	2.5	236.2295	25.01	-1.68	38901.800	4.0	81220.580	3.0
235.9977	26.00	-5.55	7376.762	4.0	49737.110	5.0	236.2301	24.01	-4.77	31117.590	2.5	73436.270	2.5
235.9988	20.02	-1.94	348051.860	4.0	390411.990	5.0	236.2315	23.00	-2.28	0.000	1.5	42318.420	1.5
236.0001	26.01	-.56	1872.600	4.5	44232.510	4.5	236.2319	25.00	-3.81	17282.000	3.5	59600.350	2.5
236.0004	24.01	-4.17	25033.950	3.5	67393.800	3.5	236.2333	27.00	-2.63	5075.830	1.5	47393.930	2.5
236.0018	30.02	-2.69	260613.100	5.0	302972.700	4.0	236.2347	25.02	-1.10	72183.330	.5	114501.180	4.5
236.0056	18.01	-2.55	157673.320	2.5	200032.230	1.5	236.2347	26.00	-5.73	7728.058	3.0	50045.900	2.0
236.0076	28.01	-2.52	73903.250	.5	116261.810	.5	236.2356	28.01	-3.92	79823.030	3.5	122140.710	4.5
236.0104	25.01	-5.68	29889.310	3.0	72247.380	3.0	236.2378	17.02	-.36	202367.600	3.5	244684.900	3.5
236.0109	25.01	-4.41	43850.420	2.0	86208.400	1.0	236.2404	26.02	-1.30	93388.750	4.0	135705.570	3.0
236.0119	30.02	-.52	260584.100	1.0	302941.900	2.0	236.2404	24.01	-4.11	31168.780	3.5	73485.600	3.5
236.0130	24.01	-1.78	35356.060	1.5	77713.660	1.5	236.2410	76.00	-.69	0.000	0.0	42329.655	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
236.3503	24.01	-3.11	47040.540	2.5	89337.700	1.5	236.6147	26.00	-2.58	12560.933	3.0	54810.820	4.0
236.3549	26.02	-2.40	89783.590	4.0	132079.910	3.0	236.6152	30.02	-2.44	257962.500	2.0	300212.300	3.0
236.3607	28.01	-3.63	71457.740	3.5	113753.040	4.5	236.6169	18.01	-2.58	172816.210	5	215065.710	5
236.3638	26.01	-1.41	21581.640	4.5	63876.380	5.5	236.6180	74.00	-2.75	4758.794	0.0	47021.006	0.0
236.3639	24.00	-2.58	7810.820	1.0	50105.540	1.0	236.6214	27.02	-2.83	56794.800	1.5	99043.500	1.5
236.3646	28.01	-3.76	53037.930	2.5	95332.530	2.5	236.6236	24.01	-1.91	49706.470	2.5	91954.780	2.5
236.3660	24.01	-3.79	31117.590	2.5	73411.940	1.5	236.6259	24.01	-1.98	34631.140	4.5	76879.030	3.5
236.3730	25.02	-3.72	136935.600	5	179228.690	1.5	236.6276	24.01	-3.02	47227.500	3.5	89475.080	2.5
236.3739	25.01	-3.44	43696.190	3.0	85899.120	2.0	236.6294	23.02	-1.50	49805.290	3.5	92052.550	4.5
236.3755	26.02	-4.39	93412.930	2.0	135705.570	3.0	236.6321	24.00	-1.28	7810.820	1.0	50057.610	2.0
236.3759	28.01	-3.81	53601.190	1.5	95893.760	1.5	236.6340	24.00	-4.21	23933.900	4.0	66180.340	5.0
236.3797	27.01	-1.14	4028.900	4.0	46320.800	4.0	236.6488	23.01	-1.68	8841.970	3.0	51085.770	3.0
236.3807	26.01	-2.52	27314.930	3.5	69606.640	3.5	236.6543	28.01	-2.74	24788.200	1.5	67031.020	1.5
236.3809	25.01	-2.30	39808.140	3.0	82099.820	4.0	236.6568	25.00	-1.58	23719.520	1.5	65961.900	1.5
236.3824	25.00	-2.04	25285.430	4.5	67576.840	4.5	236.6591	26.01	-1.11	2837.940	2.5	45079.910	2.5
236.3856	26.01	-1.68	42237.050	3.5	84527.890	2.5	236.6665	25.01	-2.93	49820.160	2.0	92060.800	1.0
236.3874	26.01	-2.63	30764.460	3.5	73054.970	4.5	236.6717	23.02	-2.09	99181.500	1.5	141421.220	5
236.3953	25.00	-2.57	25287.740	3.5	67576.840	4.5	236.6725	26.02	-4.11	147556.450	1.0	189796.030	1.0
236.3966	24.01	-3.50	33521.230	3.5	75810.100	4.5	236.6742	26.01	-1.27	50187.950	3.5	92427.220	4.5
236.4021	24.01	-2.42	12496.790	4.5	54784.670	3.5	236.6748	25.00	-1.48	25265.740	5.5	67504.900	5.5
236.4052	7.01	-1.20	187461.560	2.0	229748.900	3.0	236.6751	14.03	-1.06	276503.670	5	318742.790	5
236.4056	25.00	-4.15	17052.290	4.5	59339.550	3.5	236.6759	24.01	-1.97	21822.860	2.5	64061.820	1.5
236.4062	24.01	-1.85	25047.040	2.5	67334.200	3.5	236.6768	28.01	-2.58	67031.020	1.5	109269.830	1.5
236.4069	25.02	-2.77	94850.660	1.5	137137.690	1.5	236.6777	18.01	-1.94	156167.710	1.5	200406.360	5
236.4104	10.01	-3.99	279137.620	3.5	321424.010	4.5	236.6780	23.03	-2.04	223033.000	3.0	265271.600	3.0
236.4109	18.01	-1.37	157673.320	2.5	199959.620	2.5	236.6786	26.02	-2.74	137423.000	3.0	179661.480	3.0
236.4132	29.01	-1.60	73353.120	2.0	115639.020	2.0	236.6802	9.02	-0.91	415720.860	2.5	457959.070	3.5
236.4132	27.02	-4.47	130909.000	1.5	173194.900	2.5	236.6811	24.00	-1.34	0.000	3.0	42238.400	2.0
236.4132	27.02	-4.47	130909.000	1.5	173194.900	2.5	236.6817	25.00	-4.58	17052.290	4.5	59290.230	3.5
236.4132	27.02	-4.61	130909.000	1.5	173194.900	2.5	236.6837	24.01	-1.21	21824.250	5	64061.820	1.5
236.4152	26.02	-4.84	168329.670	3.0	210615.210	3.0	236.6866	26.01	-2.01	0.000	4.5	42237.050	3.5
236.4188	30.02	-1.72	257908.200	1.0	300193.100	2.0	236.6869	24.01	-1.03	21824.820	1.5	64061.820	1.5
236.4240	73.01	1.31	6129.972	0.0	48426.862	0.0	236.6872	26.01	-1.52	21711.890	3.5	63948.840	4.5
236.4249	27.00	-3.28	3482.820	4.5	45766.630	3.5	236.6886	23.01	-1.73	11514.760	1.0	53751.460	1.0
236.4282	19.02	-1.57	201165.000	2.5	243448.200	1.5	236.6900	25.01	-2.98	43131.400	2.0	85367.850	2.0
236.4290	10.01	-2.79	279137.620	3.5	321420.690	2.5	236.6942	27.02	-2.98	129706.900	3.5	171942.600	4.5
236.4303	28.01	-1.95	76727.360	5.5	119010.210	6.5	236.6950	74.00	-4.42	9436.930	0.0	51685.393	0.0
236.4311	26.01	-3.06	50076.100	1.5	92358.800	1.5	236.6962	29.01	-2.32	108014.660	3.0	150250.000	2.0
236.4344	26.02	-2.68	83161.480	4.0	125443.580	4.0	236.7021	26.01	-2.06	36252.960	2.5	78487.250	1.5
236.4350	14.01	-2.27	114529.200	4.5	156811.200	3.5	236.7031	24.01	-3.32	48491.390	2.5	90725.500	3.5
236.4350	14.01	-1.72	114529.200	4.5	156811.200	3.5	236.7053	13.00	-2.45	0.000	5	42233.722	1.5
236.4370	42.00	-1.16	11372.710	0.0	53667.275	0.0	236.7068	9.02	-3.93	441276.720	2.5	483510.170	2.5
236.4387	23.01	-3.98	8841.970	3.0	51123.310	2.0	236.7105	26.02	-4.86	137527.920	4.0	179760.720	3.0
236.4512	26.02	-3.28	83358.880	2.0	125637.980	3.0	236.7110	69.01	-0.86	161.315	0.0	42406.923	0.0
236.4629	17.01	-3.30	131768.000	2.0	174045.000	3.0	236.7140	14.01	-0.51	84004.520	1.5	126236.700	1.5
236.4669	27.02	-4.91	128258.900	5.5	170535.200	4.5	236.7192	25.02	-3.93	94906.450	5	137137.690	1.5
236.4669	27.02	-4.91	128258.900	5.5	170535.200	4.5	236.7206	25.01	-1.94	43528.300	5.0	85759.300	4.0
236.4669	24.02	-4.15	117099.300	4.0	159375.600	3.0	236.7208	25.02	-2.61	135246.270	2.5	177477.230	2.5
236.4716	26.01	-3.84	21812.040	1.5	64087.500	2.5	236.7228	30.02	-0.93	257962.500	2.0	300193.100	2.0
236.4730	24.00	-1.08	0.000	3.0	42275.200	4.0	236.7228	30.02	-2.08	257962.500	2.0	300193.100	3.0
236.4754	14.01	-1.20	84004.520	1.5	126279.300	5	236.7240	73.01	-0.04	4355.506	0.0	46598.794	0.0
236.4775	23.02	-3.44	99440.100	2.5	141714.500	2.5	236.7241	18.01	-3.62	147875.860	2.5	190106.230	1.5
236.4822	9.02	-3.93	348702.800	5	390976.350	1.5	236.7245	9.02	-1.78	389737.630	5	431967.930	5
236.4828	26.01	-1.17	384.770	3.5	42658.230	3.5	236.7258	26.02	-4.96	137527.920	4.0	179757.980	4.0
236.4864	23.03	-2.63	222794.600	2.0	265067.400	2.0	236.7265	9.02	-1.84	348817.600	1.5	391047.540	5
236.4939	28.01	-2.11	70635.460	2.5	112906.930	1.5	236.7294	24.00	-1.75	7593.160	2.0	49822.590	2.0
236.4965	10.01	-2.39	279137.620	3.5	321408.620	2.5	236.7329	11.02	-1.55	374681.400	5	416910.200	5
236.4975	10.01	-1.52	279137.620	3.5	321408.620	2.5	236.7350	76.01	1.50	3871.561	0.0	46112.886	0.0
236.5005	27.02	-3.77	128085.200	2.5	170355.500	2.5	236.7370	26.02	-3.66	147556.450	1.0	189784.520	2.0
236.5043	26.01	-0.97	50157.610	4.5	92427.220	4.5	236.7384	28.01	-1.21	9330.040	3.5	51557.850	3.5
236.5059	27.00	-0.49	0.000	4.5	42269.320	4.5	236.7394	26.00	-3.19	7376.762	4.0	49604.402	5.0
236.5106	18.02	-0.45	239193.480	1.0	281461.970	2.0	236.7410	25.00	-2.15	23719.520	1.5	65946.870	2.5
236.5114	10.01	-1.79	279137.620	3.5	321405.950	3.5	236.7537	23.03	-1.03	222794.600	2.0	265019.700	1.0
236.5125	26.01	-4.10	31483.200	3.5	73751.340	4.5	236.7589	26.01	-2.22	43238.610	2.5	85462.780	3.5
236.5132	24.00	-1.55	7750.780	0.0	50018.800	1.0	236.7612	13.00	-0.20	29020.410	5	71244.170	1.5
236.5154	10.01	-0.83	279137.620	3.5	321405.250	4.5	236.7648	23.02	-0.58	56160.420	2.5	98383.530	2.5
236.5162	24.01	-2.88	31168.780	3.5	73436.270	2.5	236.7669	25.01	-2.49	46903.260	2.0	89126.000	3.0
236.5172	28.02	-1.29	71383.700	2.0	113651.000	2.0	236.7673	26.02	-2.88	95312.640	4.0	135735.310	5.0
236.5219	25.01	-2.12	31514.350	4.0	73780.810	3.0	236.7680	75.00	-0.37	14921.641	0.0	57157.078	0.0
236.5239	24.01	-2.71	31219.490	4.5	73485.500	3.5	236.7680	74.00	-1.00	1613.150	0.0	43848.587	0.0
236.5251	24.01	-0.77	34813.060	5.5	77078.960	5.5	236.7688	25.01	-2.38	43536.900	4.0	85759.300	4.0
236.5268	30.02	-1.25	218540.300	2.0	260805.900	2.0	236.7803	28.00	-2.54	1713.080	1.0	43933.428	2.0
236.5290	30.02	-1.04	257908.200	1.0	300173.400	2.0	236.7808	26.02	-4.29	137527.920	4.0	179748.170	5.0
236.5290	30.02	-1.75	257908.200	1.0	300173.400	1.0	236.7843	25.01	-1.59	49820.160	2.0	92039.800	2.0
236.5329	28.01	-1.77	73903.250	5	116167.760	1.5	236.7852	25.00	-2.20	25285.430	4.5	67504.900	5.5
236.5382	28.01	-1.10	79823.030	3.5	122086.580	3.5	236.7862	24.00	-1.34	7593.160	2.0	49812.460	3.0
236.5393	26.01	-1.45	30388.550	4.5	72651.910	3.5	236.7868	9.02	-1.93	417585.350	5	459804.550	1.5
236.5405	26.02	-3.36	139509.440	5.0	181772.590	6.0	236.7899	24.01	-3.15	48632.360	3.5	9	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
236.8656	25.00	-4.00	17052.290	4.5	59257.440	4.5
236.8740	24.01	-3.94	44307.440	.5	86511.080	1.5
236.8809	11.02	-3.66	418556.900	.5	460759.300	.5
236.8830	10.01	-1.66	279218.660	2.5	321420.690	2.5
236.8838	25.02	-3.62	137137.690	1.5	179339.590	2.5
236.8846	10.01	-2.52	279218.660	2.5	321420.690	1.5
236.8887	26.00	-3.33	7985.783	2.0	50186.814	2.0
236.8897	25.01	-1.10	49882.150	4.0	92083.000	3.0
236.8917	26.02	-4.06	139625.170	4.0	181825.670	4.0
236.8936	28.01	-2.06	70706.770	1.5	112906.930	1.5
236.8950	17.02	-2.12	179663.000	1.5	221862.900	.5
236.9012	27.02	-2.41	85474.100	6.5	127672.900	6.5
236.9012	25.00	-4.66	17282.000	3.5	59480.800	2.5
236.9035	26.02	-3.07	137561.100	1.0	179759.490	2.0
236.9046	27.01	-5.89	19189.900	4.0	61388.100	4.0
236.9068	27.02	-3.13	86327.100	3.5	128524.900	2.5
236.9073	25.01	-3.05	43536.900	4.0	85734.620	3.0
236.9187	18.01	-3.27	158428.030	.5	200623.700	.5
236.9197	24.01	-4.44	33521.230	3.5	75716.740	3.5
236.9197	26.01	-4.37	25805.320	4.5	68000.820	4.5
236.9220	28.01	-1.24	24835.930	.5	67031.020	.5
236.9236	26.01	-1.38	22637.190	4.5	64832.000	4.5
236.9240	76.00	.21	8630.355	0.0	50837.983	0.0
236.9270	75.00	.20	11695.340	0.0	53902.433	0.0
236.9304	13.00	.20	29066.960	1.5	71260.550	2.5
236.9320	73.01	.28	2581.041	0.0	44787.244	0.0
236.9326	27.02	-2.81	130183.800	3.5	172377.000	3.5
236.9330	25.01	-1.81	49889.860	3.0	92083.000	3.0
236.9332	27.02	-2.46	83799.600	2.5	125992.700	2.5
236.9342	26.02	-1.80	93512.640	4.0	135705.570	3.0
236.9390	9.02	-4.35	415184.120	.5	457376.180	.5
236.9399	24.01	-3.44	48399.190	1.5	90591.100	2.5
236.9452	24.01	-4.45	33619.130	4.5	75810.100	4.5
236.9457	26.00	-3.43	888.132	1.0	43079.013	1.0
236.9508	10.01	-1.59	279218.660	2.5	321408.620	2.5
236.9517	28.01	-2.27	56371.410	3.5	98561.220	3.5
236.9518	10.01	-1.10	279218.660	2.5	321408.440	3.5
236.9529	24.02	-4.72	71166.100	2.0	113355.700	2.0
236.9531	10.02	-2.19	356766.200	1.0	398955.750	1.0
236.9611	25.00	-4.10	17282.000	3.5	59470.140	3.5
236.9646	11.02	-2.96	418418.100	1.5	460605.600	1.5
236.9647	28.02	-3.26	97996.300	3.0	140183.800	4.0
236.9658	10.01	-2.01	279218.660	2.5	321405.950	3.5
236.9665	26.01	-2.94	50142.930	2.5	92330.100	2.5
236.9670	33.00	.35	18551.230	0.0	60751.199	0.0
236.9676	27.00	-.65	4142.660	3.5	46329.630	2.5
236.9686	26.02	-4.53	144116.640	3.0	186303.440	3.0
236.9698	26.01	-3.43	42658.230	3.5	84844.810	2.5
236.9723	10.02	-2.59	356766.200	1.0	398955.740	2.0
236.9747	25.01	-1.54	39808.140	3.0	81993.850	4.0
236.9783	28.01	-1.08	74283.330	.5	116468.400	1.5
236.9784	26.01	-1.96	66463.590	5.5	108648.640	6.5
236.9860	26.01	-1.14	44232.510	4.5	86416.220	3.5
236.9865	28.01	-.95	66579.710	1.5	108763.320	.5
236.9870	26.02	-3.36	139625.170	4.0	181808.700	5.0
236.9890	29.01	-.80	26264.400	2.0	68447.570	3.0
236.9890	29.01	-.01	26133.037	0.0	68329.088	0.0
236.9913	23.02	-1.27	99804.570	2.5	141987.320	3.5
236.9924	27.00	-1.78	4690.180	2.5	46872.740	3.5
236.9947	23.02	-2.25	102961.280	3.5	145143.430	4.5
236.9961	26.01	.79	42114.790	4.5	84296.700	5.5
236.9970	26.00	-5.53	7376.762	4.0	49558.500	4.0
236.9990	26.02	-4.26	147614.650	2.0	189796.030	1.0
237.0010	23.00	-2.00	137.380	2.5	42318.420	1.5
237.0034	26.00	-3.27	6928.266	5.0	49108.876	4.0
237.0036	26.02	-4.04	158257.370	1.0	200437.940	2.0
237.0096	25.01	-1.07	40759.500	0.0	82939.000	1.0
237.0111	10.02	-3.78	356776.520	0.0	398955.750	1.0
237.0111	10.02	-2.24	356776.520	2.0	398955.750	1.0
237.0170	44.00	-.13	2661.698	0.0	44852.764	0.0
237.0176	24.00	-4.20	7927.470	2.0	50105.540	1.0
237.0186	29.02	-4.24	153609.200	3.5	195787.100	3.5
237.0225	13.00	-.09	29066.960	1.5	71244.170	1.5
237.0246	25.02	-3.96	135510.700	2.5	177687.540	3.5
237.0294	10.01	-3.92	276276.850	1.5	318452.820	1.5
237.0303	10.02	-1.72	356776.520	2.0	398952.340	2.0
237.0304	27.02	-4.70	130407.800	2.5	172583.600	3.5
237.0316	26.02	-2.46	90483.590	3.0	132659.170	4.0
237.0326	17.02	.14	216710.400	3.5	258885.800	2.5
237.0373	24.00	-1.05	7927.470	2.0	50102.040	3.0
237.0383	24.02	-1.94	70291.800	2.0	112466.200	3.0
237.0463	26.01	-3.40	20516.980	2.5	62689.960	2.5
237.0493	23.01	-3.01	13490.840	2.0	55663.270	1.0
237.0497	26.01	-1.15	3117.480	1.5	45289.840	1.5
237.0511	27.00	-.74	816.000	3.5	42988.120	3.5
237.0514	26.02	-3.13	89907.850	4.0	132079.910	3.0
237.0518	10.02	-1.64	356776.520	2.0	398948.510	3.0
237.0529	29.01	-4.10	69704.800	4.0	111876.600	3.0
237.0529	27.02	-3.31	56373.800	2.5	98545.600	3.5
237.0583	9.02	-1.85	417970.800	1.5	460141.630	2.5
237.0610	26.01	-1.16	22939.350	2.5	65109.710	3.5
237.0631	18.01	-4.69	148842.370	2.5	191012.350	1.5
237.0637	26.02	-3.81	147614.650	2.0	189784.520	2.0
237.0671	24.00	-1.58	8095.210	3.0	50264.480	3.0
237.0700	25.01	-1.53	31514.350	4.0	73683.110	4.0
237.0700	76.00	.01	4113.534	0.0	46295.168	0.0
237.0726	13.00	-.90	29066.960	1.5	71235.250	.5
237.0748	29.01	-1.13	67916.390	1.0	110084.290	1.0
237.0759	27.01	-.68	21624.400	5.0	63792.100	4.0
237.0760	73.01	.93	5565.369	0.0	47745.936	0.0
237.0760	75.01	.85	14760.326	0.0	56940.893	0.0
237.0770	33.00	.26	18551.230	0.0	60731.619	0.0
237.0772	28.01	-1.27	74300.930	1.5	116468.400	1.5
237.0810	30.02	-.35	260805.900	2.0	302972.700	3.0
237.0874	26.02	-1.33	93388.750	4.0	135554.410	4.0
237.0880	74.00	-1.01	2903.671	0.0	45082.103	0.0
237.0981	14.03	-.76	276579.030	1.5	318742.790	.5
237.1041	28.01	.15	79923.880	4.5	122086.580	3.5
237.1056	23.02	.60	44646.960	4.5	68809.390	5.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
237.1082	26.02	-3.22	93392.450	3.0	135554.410	4.0
237.1155	9.02	-1.38	415394.510	1.5	457555.170	1.5
237.1180	76.00	.43	8630.355	0.0	50803.450	0.0
237.1183	24.00	-1.49	23933.900	4.0	66094.060	4.0
237.1249	8.03	-2.52	594074.000	3.5	636233.000	3.5
237.1263	9.02	-2.79	348817.600	1.5	390976.350	1.5
237.1292	28.01	-3.23	70748.700	.5	112906.930	1.5
237.1320	31.00	-1.57	0.000	0.0	42170.605	0.0
237.1355	26.01	-4.72	21308.080	1.5	63465.190	1.5
237.1361	23.01	-4.16	34228.790	3.0	76385.800	3.0
237.1390	74.00	-.51	17018.737	0.0	59188.098	0.0
237.1400	24.01	-2.91	47464.940	4.5	89621.250	3.5
237.1412	30.02	-.25	218428.000	0.0	260584.100	1.0
237.1431	26.00	-2.31	704.003	2.0	42859.756	2.0
237.1440	27.02	-3.18	85517.300	5.5	127672.900	6.5
237.1520	75.00	-.20	11534.025	0.0	53701.074	0.0
237.1537	25.00	-3.21	23719.520	1.5	65873.400	2.5
237.1580	73.00	-.14	3871.561	0.0	46037.543	0.0
237.1599	26.01	-1.92	44446.890	3.5	86599.660	2.5
237.1612	25.02	-3.53	135116.800	1.5	177269.340	1.5
237.1634	26.02	-3.93	144116.640	3.0	186268.790	2.0
237.1656	18.01	-4.86	147503.020	1.5	189654.780	2.5
237.1667	23.01	-3.99	13511.710	1.0	55863.270	1.0
237.1712	24.01	-3.68	38269.670	3.5	80420.430	2.5
237.1722	24.01	-2.73	46905.520	1.5	89056.100	2.5
237.1732	27.00	-1.98	8460.810	2.5	50611.220	3.5
237.1734	25.01	-4.81	31760.930	2.0	73911.310	1.0
237.1738	18.01	-3.93	158730.210	2.5	200880.520	3.5
237.1758	25.01	-.96	49889.860	3.0	92039.800	2.0
237.1765	25.01	-3.84	38901.800	4.0	81051.620	3.0
237.1780	26.02	-4.47	139680.470	3.0	181830.020	3.0
237.1821	25.00	-4.54	17451.520	2.5	59600.350	2.5
237.1833	26.01	-3.25	18886.750	.5	61035.370	.5
237.1835	26.02	-3.88	147635.950	3.0	189784.520	2.0
237.1835	24.01	-3.76	32355.940	3.5	74504.510	4.5
237.1839	30.02	-1.72	258075.700	3.0	300224.200	4.0
237.1846	27.00	-1.24	1406.840	2.5	43555.220	3.5
237.1958	22.00	-.05	0.000	2.0	42146.390	1.0
237.2013	25.01	-2.62	43528.300	5.0	85673.720	4.0
237.2014	27.02	-3.13	57036.800	.5	99182.200	.5
237.2025	26.02	-4.85	139680.470	3.0	181825.670	4.0
237.2057	24.01	-1.96	35569.020	2.5	77713.660	1.

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
237.3738	26.01	-4.40	0.000	4.5	42114.790	4.5	237.6627	25.01	-4.83	53017.160	1.0	95080.760	1.0
237.3744	9.02	-2.99	441406.460	3.5	483521.140	3.5	237.6644	17.02	-6.61	201765.100	2.5	243828.400	2.5
237.3749	26.01	-2.74	20830.520	2.5	62945.120	3.5	237.6647	28.01	-3.54	70358.940	4.5	112422.190	5.5
237.3822	24.01	-3.74	48399.190	1.5	90512.500	1.5	237.6655	30.02	-2.64	260878.800	3.0	302941.900	2.0
237.3840	90.01	-7.72	0.000	0.0	42125.838	0.0	237.6655	30.02	-1.17	260878.800	3.0	302941.900	3.0
237.3850	25.02	-3.31	89307.220	5.5	131420.030	6.5	237.6655	25.01	-4.53	43696.190	3.0	85759.300	4.0
237.3864	27.00	-1.81	1809.330	1.5	43921.890	2.5	237.6706	25.01	-6.86	37851.150	3.0	79913.350	4.0
237.3877	25.02	-1.91	71564.210	1.5	113676.530	2.5	237.6708	26.02	-1.07	88694.670	5.0	130756.840	6.0
237.3895	26.02	-1.07	88923.070	6.0	131035.070	7.0	237.6786	24.01	-2.97	31351.150	2.5	73411.940	1.5
237.3940	73.01	.82	10646.793	0.0	52770.857	0.0	237.6824	26.00	-5.83	7985.783	2.0	50045.900	2.0
237.4023	26.02	-3.24	157573.200	0.0	179682.940	1.0	237.6853	24.00	-3.88	7593.160	2.0	49652.760	2.0
237.4057	10.01	-1.62	279324.890	1.5	321434.020	1.5	237.6906	26.01	-2.94	43620.980	1.5	85679.640	2.5
237.4077	23.02	-5.59	103034.650	4.5	145143.430	4.5	237.6951	24.01	-4.42	38362.560	1.5	80420.430	2.5
237.4108	23.00	-2.61	137.380	2.5	42245.610	3.5	237.6963	26.02	-2.91	141399.040	2.0	183456.690	3.0
237.4124	23.02	-3.06	98825.190	3.5	140933.140	3.5	237.6969	25.00	-4.80	17282.000	3.5	59339.550	3.5
237.4132	25.01	-3.32	43528.300	5.0	85636.100	6.0	237.6974	26.00	-3.78	7985.783	2.0	50043.250	1.0
237.4140	74.00	-9.95	6129.972	0.0	48250.487	0.0	237.6974	27.00	-2.29	3482.820	4.5	45540.280	5.5
237.4143	23.03	-1.58	222794.600	2.0	264902.200	3.0	237.6989	25.02	-4.09	137282.400	2.5	179339.590	2.5
237.4280	23.01	-4.65	26839.820	3.0	68945.000	3.0	237.6997	24.00	-2.72	7593.160	2.0	49650.220	3.0
237.4284	30.02	-1.49	260878.800	3.0	302983.900	4.0	237.7009	25.01	-2.53	43311.000	1.0	85367.850	2.0
237.4297	26.02	-3.66	79844.740	6.0	121949.620	5.0	237.7030	16.00	.85	5081.424	0.0	47150.729	0.0
237.4314	25.02	-1.19	72183.330	3.5	114287.910	2.5	237.7115	28.01	-4.07	92325.850	3.5	134380.820	3.5
237.4330	76.00	-7.77	4113.534	0.0	44230.679	0.0	237.7130	25.01	-2.57	39088.140	3.0	81862.840	4.0
237.4411	26.02	-4.06	137527.920	4.0	179630.770	4.0	237.7181	27.02	-2.59	83938.900	3.5	125992.700	2.5
237.4420	40.00	-7.78	0.000	0.0	42115.548	0.0	237.7185	25.00	-2.49	0.000	2.5	42053.730	2.5
237.4449	25.01	-3.76	43850.420	2.0	85952.600	3.0	237.7219	27.00	-1.08	5075.830	1.5	47128.960	2.5
237.4458	27.00	-2.20	1809.330	1.5	43911.360	1.5	237.7226	30.02	-2.51	258171.200	5.0	300224.200	4.0
237.4460	74.00	-0.09	4758.794	0.0	46873.633	0.0	237.7226	30.02	-7.76	258171.200	5.0	300224.200	5.0
237.4493	13.00	-1.12	29142.780	2.5	71244.170	1.5	237.7227	28.01	-4.14	91800.050	4.5	133853.040	4.5
237.4510	76.00	-1.14	10969.423	0.0	53083.375	0.0	237.7244	15.01	-2.43	87967.700	3.0	130020.400	3.0
237.4519	26.00	-2.58	978.076	0.0	43079.013	1.0	237.7258	25.01	-2.74	47073.560	3.0	89126.000	3.0
237.4574	24.01	-3.23	32355.940	3.5	74455.900	4.5	237.7258	26.01	-3.36	42658.230	3.5	84710.660	3.5
237.4576	25.00	-2.93	23549.200	2.5	65649.130	2.5	237.7261	25.02	-3.09	94771.470	2.5	136823.860	3.5
237.4585	28.01	-1.24	58493.210	2.5	100592.980	3.5	237.7280	77.00	-2.24	7017.204	0.0	49082.085	0.0
237.4588	24.01	-3.57	48491.390	2.5	90591.100	2.5	237.7288	26.02	-5.00	137527.920	4.0	179579.830	5.0
237.4594	26.01	-1.61	33501.320	3.5	75600.930	3.5	237.7290	9.02	-2.15	415394.510	1.5	457446.390	1.5
237.4642	25.02	-2.28	94697.850	3.5	136796.610	2.5	237.7327	25.01	-3.60	44138.960	1.0	86190.180	2.0
237.4650	23.01	-2.31	8640.210	2.0	50738.620	1.0	237.7345	25.01	-8.83	59537.400	4.0	101586.300	3.0
237.4679	24.01	-1.90	47227.500	3.5	89325.600	4.5	237.7345	27.01	-5.66	9189.900	4.0	61240.800	3.0
237.4702	30.02	-1.90	258075.700	3.0	300173.400	2.0	237.7348	28.01	-1.97	70635.460	2.5	112686.300	2.5
237.4707	24.01	-3.75	33619.130	4.5	75716.740	3.5	237.7352	28.01	-3.60	91800.050	4.5	133850.830	3.5
237.4760	74.00	-1.06	3306.958	0.0	45416.476	0.0	237.7401	30.02	-0.05	258171.200	5.0	300221.100	6.0
237.4769	17.02	-3.96	174613.900	2.5	216710.400	3.5	237.7401	30.02	-1.89	258171.200	5.0	300221.100	5.0
237.4789	26.01	-1.85	61512.670	4.5	103608.820	4.5	237.7469	11.02	-3.74	418556.900	.5	460605.600	1.5
237.4807	28.01	-2.00	56371.410	3.5	98467.250	3.5	237.7610	76.00	.33	11292.053	0.0	53351.095	0.0
237.4809	10.01	-1.45	279324.890	1.5	321420.690	2.5	237.7615	23.02	-3.93	99941.200	3.5	141987.320	3.5
237.4825	10.01	-2.37	279324.890	1.5	321420.410	1.5	237.7628	30.02	-1.18	258178.300	4.0	300224.200	5.0
237.4842	28.01	-4.77	78955.450	1.5	121050.660	2.5	237.7628	30.02	-1.82	258178.300	4.0	300224.200	4.0
237.4865	26.01	-2.76	50187.950	3.5	92282.760	3.5	237.7658	25.02	-3.29	134638.390	1.5	176683.760	2.5
237.4916	30.02	-2.15	260878.800	3.0	302972.700	3.0	237.7746	30.02	-1.79	218540.300	2.0	260584.100	1.0
237.4916	30.02	-2.24	260878.800	3.0	302972.700	4.0	237.7753	24.01	-1.83	47464.940	4.5	89508.630	5.5
237.4959	24.01	-4.06	48632.360	3.5	90725.500	3.5	237.7770	29.01	-2.30	73595.640	1.0	115639.020	2.0
237.5005	6.01	-9.94	145549.270	1.5	187641.600	2.5	237.7785	26.02	-3.06	147635.950	3.0	189679.070	3.0
237.5021	22.02	.04	41703.650	2.0	85795.700	1.0	237.7840	90.01	-0.05	4032.876	0.0	46087.850	0.0
237.5040	27.02	-3.97	82920.700	3.5	125012.400	4.5	237.7861	26.02	-2.31	93512.640	4.0	135554.410	4.0
237.5046	24.02	-3.44	116532.100	3.0	158623.700	4.0	237.7863	26.01	-2.28	18360.650	1.5	60402.380	2.5
237.5061	24.00	-2.15	7927.470	2.0	50018.800	1.0	237.7869	27.00	-2.52	7442.410	3.5	49484.050	3.5
237.5070	75.00	.09	14115.066	0.0	56219.088	0.0	237.7899	30.02	-1.92	258171.200	5.0	300212.300	4.0
237.5076	23.02	-1.99	99440.100	2.5	141531.170	1.5	237.7901	26.01	-2.55	66589.170	4.5	108630.240	5.5
237.5080	25.02	-3.72	137137.690	1.5	179228.690	1.5	237.7980	77.00	-2.24	7017.204	0.0	49069.702	0.0
237.5085	6.01	-7.78	145550.700	2.5	187641.600	3.5	237.7994	26.00	-2.15	12560.933	3.0	54600.350	3.0
237.5085	6.01	-2.08	145550.700	2.5	187641.600	2.5	237.8018	8.03	-2.60	594019.000	2.5	636050.000	2.5
237.5192	26.01	-7.77	3117.480	1.5	45206.490	.5	237.8020	25.01	-9.97	64473.130	3.0	106512.100	4.0
237.5193	27.01	-1.20	4950.000	2.0	47039.000	3.0	237.8050	25.01	-3.72	43696.190	3.0	85734.620	3.0
237.5199	24.00	-2.36	8095.210	3.0	50184.100	2.0	237.8058	9.01	-4.83	235150.580	2.0	277188.860	1.0
237.5270	44.00	.02	2661.698	0.0	44762.175	0.0	237.8072	25.02	-1.88	94850.660	1.5	136888.700	1.5
237.5273	26.01	-2.83	25428.800	5.5	67516.370	5.5	237.8077	24.00	-1.10	24056.110	5.0	66094.060	4.0
237.5299	28.01	-4.42	78955.450	1.5	121042.570	1.5	237.8100	26.00	-3.75	11976.239	4.0	54013.780	5.0
237.5412	24.01	-3.16	31351.150	2.5	73436.270	2.5	237.8100	26.00	-7.77	11976.239	4.0	54013.780	5.0
237.5420	28.01	-2.21	14995.570	2.5	57080.550	3.5	237.8140	76.00	-5.55	5726.684	0.0	47776.353	0.0
237.5422	25.02	-2.35	94850.660	1.5	136935.600	.5	237.8145	22.00	-0.07	170.132	3.0	42206.880	2.0
237.5441	24.02	-4.13	115552.700	3.0	157637.300	3.0	237.8253	24.01	-2.27	25035.640	.5	67070.480	1.5
237.5452	25.02	-4.26	137599.200	3.5	179683.610	4.5	237.8278	23.03	-7.76	223033.000	3.0	265067.400	2.0
237.5459	28.01	-2.01	70635.460	2.5	112719.750	3.5	237.8301	30.02	-7.72	258178.300	4.0	300212.300	4.0
237.5468	26.00	-7.28	7376.762	4.0	49460.876	5.0	237.8301	30.02	-2.27	258178.300	4.0	300212.300	3.0
237.5490	10.01	-2.18	279324.890	1.5	321408.620	2.5	237.8306	24.02	-2.23	71321.800	3.0	113359.700	2.0
237.5594	17.02	-4.52	179781.000	.5	221862.900	.5	237.8310	73.01	.09	967.890	0.0	43014.553	0.0
237.5689	24.01	-1.97	32355.940	3.5	74436.140	2.5	237.8391	29.01	-3.20	72724.000	2.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
237.9058	26.02	-4.46	158417.310	2.0	200437.940	2.0	238.1066	15.01	-4.02	87125.400	2.0	129110.600	1.0
237.9073	25.02	-4.62	136796.610	2.5	178816.960	2.5	238.1099	30.02	-2.50	258239.600	4.0	300224.200	5.0
237.9100	25.01	-2.99	31760.930	2.0	73780.810	3.0	238.1099	30.02	-0.85	258239.600	4.0	300224.200	4.0
237.9140	26.01	-1.59	25981.650	3.5	68000.820	4.5	238.1103	28.01	-1.87	72985.650	1.5	114970.190	5.0
237.9140	32.00	-0.33	7017.204	0.0	49049.190	0.0	238.1106	26.02	-4.44	137209.730	4.0	179194.220	4.0
237.9154	23.01	-1.00	11908.270	2.0	53927.199	3.0	238.1107	26.02	-3.26	137763.700	5.0	179748.170	5.0
237.9155	29.01	-3.98	88926.090	0.0	130945.000	1.0	238.1116	30.02	-1.04	260988.400	4.0	302972.700	4.0
237.9157	27.00	-0.86	1406.840	2.5	43425.710	2.5	238.1116	30.02	-2.58	260988.400	4.0	302972.700	3.0
237.9171	25.00	-3.93	17451.520	2.5	59470.140	3.5	238.1130	73.01	-0.72	2581.041	0.0	44577.908	0.0
237.9191	25.01	-2.24	64493.830	4.0	106512.100	4.0	238.1133	26.01	-3.53	50187.950	3.5	92171.950	4.5
237.9225	24.01	-4.68	46905.520	1.5	88923.200	2.5	238.1134	8.03	-3.90	594074.000	3.5	636058.000	2.5
237.9252	30.02	-3.89	258171.200	5.0	300188.400	6.0	238.1138	18.01	-1.80	158167.710	1.5	200151.640	1.5
237.9263	9.02	-2.22	348817.600	1.5	390834.600	2.5	238.1140	75.00	-0.25	11695.340	0.0	53692.031	0.0
237.9274	26.01	-0.90	2430.080	3.5	44446.890	3.5	238.1169	22.01	-7.95	225.470	3.5	42208.840	2.5
237.9297	26.01	-0.69	37227.320	5	79243.730	1.5	238.1180	33.00	-0.03	10808.108	0.0	52804.093	0.0
237.9345	24.01	-4.48	47040.540	2.5	89056.100	2.5	238.1184	25.03	-4.28	130969.500	3.0	172952.600	3.0
237.9359	27.00	-2.56	5075.830	1.5	47091.140	5	238.1200	9.02	-4.72	390077.800	2.5	432060.640	1.5
237.9363	25.01	-2.52	40759.500	0.0	82774.730	1.0	238.1212	28.01	-0.85	58493.210	2.5	100475.820	3.5
237.9380	25.01	-1.81	43528.300	5.0	85543.230	5.0	238.1233	25.02	-3.10	94906.450	5	136888.700	1.5
237.9380	23.02	-1.94	99181.500	1.5	141196.430	2.5	238.1260	27.00	-5.21	4690.180	2.5	46671.940	2.5
237.9380	77.00	-0.21	4032.876	0.0	46060.631	0.0	238.1266	9.02	-3.71	415394.510	1.5	457376.180	5.0
237.9385	26.01	-1.45	44915.070	3.5	86929.920	3.5	238.1275	30.02	-0.13	258239.600	4.0	300221.100	5.0
237.9388	30.02	-1.80	258178.300	4.0	300193.100	3.0	238.1341	9.02	-1.81	390080.300	1.5	432060.640	1.5
237.9390	76.00	0.36	5081.424	0.0	47109.002	0.0	238.1354	24.00	-0.03	24200.230	6.0	66180.340	5.0
237.9414	26.01	-2.56	50157.610	4.5	92171.950	4.5	238.1373	25.02	-3.31	134286.000	1.5	176265.780	1.5
237.9421	18.01	-2.69	159706.460	5	201720.670	1.5	238.1387	28.01	-2.34	70706.770	1.5	112686.300	2.5
237.9478	17.02	-0.52	204124.000	1.5	246137.200	2.5	238.1434	29.02	-3.85	153808.400	4.5	195787.100	3.5
237.9559	24.00	-1.81	7810.820	1.0	49822.590	2.0	238.1447	28.01	-2.26	74283.330	5	116261.810	5
237.9580	28.01	-0.08	74300.930	1.5	116312.340	1.5	238.1455	24.01	-3.08	25033.950	3.5	67012.280	2.5
237.9596	10.01	-1.80	279422.890	5	321434.020	1.5	238.1455	18.01	-2.03	158428.030	5	200406.360	5
237.9640	76.00	-0.43	4113.534	0.0	46136.697	0.0	238.1465	24.01	-1.18	21824.250	5	63802.410	5
237.9664	23.00	-3.05	0.000	1.5	42009.930	2.5	238.1494	25.02	-3.95	135709.900	2.5	177687.540	3.5
237.9690	81.00	-0.52	0.000	0.0	42022.280	0.0	238.1497	24.01	-1.80	21824.820	1.5	63802.410	5
237.9705	26.01	-3.73	50157.610	4.5	92166.810	5.5	238.1500	25.01	-3.28	43696.190	3.0	85673.720	4.0
237.9707	24.01	-4.13	32844.920	1.5	74854.080	5	238.1515	28.01	-1.01	66571.340	2.5	108548.610	1.5
237.9720	28.00	-3.10	3409.925	2.0	45418.858	2.0	238.1520	73.01	0.14	0.000	0.0	41989.990	0.0
237.9747	25.00	-3.94	23296.670	3.5	65305.130	3.5	238.1619	25.00	-3.92	17282.300	3.5	59257.440	4.5
237.9760	25.00	-4.07	17282.000	3.5	59290.230	3.5	238.1620	77.00	0.05	6291.287	0.0	48279.514	0.0
237.9809	28.01	-2.60	92373.450	5.0	134380.820	3.5	238.1638	27.02	-2.95	86283.800	4.5	128258.900	5.5
237.9813	17.02	-2.45	201073.400	5	243080.700	1.5	238.1649	22.01	-8.96	93.940	2.5	42068.850	1.5
237.9826	26.00	-2.32	11976.239	4.0	53983.300	5.0	238.1725	23.01	-4.08	30318.630	4.0	72292.200	4.0
237.9839	24.00	-1.58	8095.210	3.0	50102.040	3.0	238.1775	30.02	-3.56	258239.600	4.0	300212.300	4.0
237.9847	27.02	-3.80	57036.800	5	99043.500	1.5	238.1775	30.02	-2.02	258239.600	4.0	300212.300	3.0
237.9861	18.01	-2.42	157673.320	2.5	199679.760	2.5	238.1782	25.01	-2.33	39808.140	3.0	81780.700	3.0
237.9868	25.01	-3.16	43536.900	4.0	85543.230	5.0	238.1836	26.00	-1.99	888.132	1.0	42859.756	2.0
237.9947	24.00	-1.73	7593.160	2.0	49598.080	2.0	238.1894	28.01	-1.67	51557.650	3.5	93528.440	3.5
237.9956	25.01	-2.31	39808.140	3.0	81812.900	2.0	238.1923	25.01	-0.93	64549.720	6.0	106519.800	7.0
238.0004	25.01	-0.72	64518.570	5.0	106522.500	6.0	238.1950	28.02	-3.25	78303.100	2.0	120272.700	1.0
238.0028	26.01	-1.83	50212.930	2.5	92216.420	1.5	238.1963	25.01	-0.93	64549.720	6.0	106519.100	5.0
238.0062	11.02	-2.87	418418.100	1.5	460421.000	2.5	238.1966	26.01	-0.48	44446.890	3.5	86416.220	3.5
238.0113	30.02	-0.23	260981.900	3.0	302983.900	4.0	238.1973	27.02	-3.04	130407.800	2.5	172377.000	3.5
238.0156	25.02	-0.15	91948.300	3.5	133949.540	4.5	238.1974	24.01	-1.83	25043.100	1.5	67012.280	2.5
238.0179	25.02	-1.05	90936.220	1.5	132937.060	5	238.1978	9.02	-1.28	349007.250	2.5	390976.350	1.5
238.0191	23.00	-1.55	137.380	2.5	42138.000	2.5	238.1990	28.01	-1.25	66579.710	1.5	108548.610	1.5
238.0196	25.01	-3.81	64518.570	5.0	106519.100	5.0	238.2035	26.01	-0.61	0.000	4.5	41968.110	5.5
238.0208	26.01	-2.68	44929.590	2.5	86929.920	3.5	238.2064	23.02	-3.32	63315.050	3.5	105282.650	2.5
238.0220	75.00	-0.04	16534.792	0.0	58547.715	0.0	238.2080	25.01	-1.97	39813.380	2.0	81780.700	3.0
238.0226	24.02	-2.45	115668.900	5.0	157668.900	6.0	238.2098	23.03	-1.01	223304.600	4.0	265271.600	3.0
238.0237	25.00	-4.15	17568.480	1.5	59568.290	5	238.2100	26.02	-4.14	158417.310	2.0	200384.280	3.0
238.0253	25.01	-1.86	39813.380	2.0	81812.900	2.0	238.2164	28.01	-4.28	67880.160	2.5	109846.000	3.5
238.0277	23.00	-1.60	0.000	1.5	41999.100	1.5	238.2177	25.00	-3.43	23296.670	3.5	65262.280	4.5
238.0288	26.00	-3.80	7728.058	3.0	49726.964	4.0	238.2178	26.02	-3.94	140453.100	3.0	182418.700	4.0
238.0300	72.01	-0.19	3629.588	0.0	45641.099	0.0	238.2198	24.01	-3.30	25047.040	2.5	67012.280	2.5
238.0304	26.00	-2.07	12560.933	3.0	54559.560	3.0	238.2214	26.01	-2.75	21308.080	1.5	63273.030	2.5
238.0311	26.02	-4.94	139827.170	4.0	181825.670	4.0	238.2232	8.02	-0.16	324836.410	4.0	366801.040	3.0
238.0349	26.02	-2.94	137209.730	4.0	179207.570	5.0	238.2290	26.01	-1.49	30388.550	4.5	72352.170	3.5
238.0354	28.01	-1.58	58493.210	2.5	100490.950	1.5	238.2357	26.01	-1.72	3117.480	1.5	45079.910	2.5
238.0367	10.01	-2.74	279422.890	5	321420.410	1.5	238.2359	24.00	-1.88	8095.210	3.0	50057.610	2.0
238.0410	42.00	0.02	11775.998	0.0	53785.568	0.0	238.2404	26.02	-3.13	137763.700	5.0	179725.310	6.0
238.0411	22.01	-9.08	0.000	1.5	41996.740	5	238.2446	28.01	-0.34	74300.930	1.5	116261.810	5
238.0436	27.02	-2.12	91715.100	2.5	133711.400	2.5	238.2460	76.00	0.15	11292.053	0.0	53265.475	0.0
238.0464	24.00	-1.60	7593.160	2.0	49588.970	1.0	238.2463	23.02	0.46	44345.820	3.5	86306.400	4.5
238.0481	30.02	-0.11	260988.400	4.0	302983.900	5.0	238.2475	23.01	-1.57	11908.270	2.0	53868.630	2.0
238.0481	30.02	-1.75	260988.400	4.0	302983.900	4.0	238.2495	30.02	-2.49	260981.900	3.0	302941.900	2.0
238.0484	23.01	-4.29	20089.560	1.0	62085.020	2.0	238.2495	30.02	-2.59	260981.900	3.0	302941.900	3.0
238.0485	27.00	-0.48	816.000	3.5	42811.440	3.5	238.2518	28.02	-2.25	75646.900	4.0	117606.500	3.0
238.0489	25.02	-3.25	135692.170	3.5	177687.540	3.5	238.2521	26.02	-0.81	140453.100	3.0	182412.650	4.0
238.0495	27.00	-1.30	4690.180	2.5	46685.430	1.5	238.2531	26.01	-4.55	50157.610	4.5	92116.980	4.

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
238.3404	29.02	-4.67	153609.200	3.5	195553.200	2.5	238.6374	27.01	-0.68	4560.800	3.0	46452.600	2.0
238.3407	22.00	-3.52	0.000	2.0	41943.950	1.0	238.6378	26.02	-3.80	141539.550	6.0	183431.280	5.0
238.3450	27.01	0.08	4028.900	4.0	45972.100	3.0	238.6384	26.01	0.10	44232.510	4.5	86124.140	4.5
238.3460	75.00	-1.15	14115.066	0.0	56070.878	0.0	238.6401	28.01	-4.36	73893.730	1.5	115785.060	1.5
238.3480	18.01	-1.44	158167.710	1.5	200110.380	0.5	238.6409	26.00	-6.69	8154.713	1.0	50045.900	2.0
238.3520	42.00	0.17	11775.998	0.0	53730.754	0.0	238.6416	23.01	-4.81	20242.320	4.0	62133.390	3.0
238.3539	28.01	-1.61	70778.120	3.5	112719.750	3.5	238.6426	27.02	-2.14	83799.600	2.5	125690.500	3.5
238.3575	10.01	-4.61	276511.820	0.5	318452.820	1.5	238.6435	25.00	-4.59	17637.150	0.5	59527.890	1.5
238.3639	9.02	-1.92	390120.770	0.5	432060.640	1.5	238.6446	28.01	-0.34	74300.930	1.5	116191.470	2.5
238.3640	51.00	-4.42	18309.257	0.0	60261.901	0.0	238.6455	23.01	-2.40	13609.000	4.0	55499.380	5.0
238.3640	78.00	0.01	10082.190	0.0	52034.834	0.0	238.6465	25.00	-4.77	17637.150	0.5	59527.360	0.5
238.3720	73.01	0.67	5565.369	0.0	47516.065	0.0	238.6509	27.00	-2.32	4142.660	3.5	46032.100	4.5
238.3790	77.00	-4.46	9759.560	0.0	51709.564	0.0	238.6521	28.01	-1.63	72985.650	1.5	114874.880	2.5
238.3819	24.02	-1.70	116391.600	2.0	158328.300	2.0	238.6560	26.00	-2.98	8154.713	1.0	50043.250	1.0
238.3873	8.02	-0.31	324658.250	3.0	366594.010	2.0	238.6586	28.00	-0.75	879.813	2.0	42767.900	3.0
238.3935	18.01	-3.24	147503.020	1.5	189437.690	0.5	238.6612	9.02	-2.37	390080.300	1.5	431967.930	0.5
238.3939	30.02	-0.91	258277.700	3.0	300212.300	3.0	238.6620	25.01	-2.36	49291.310	3.0	91178.800	4.0
238.3939	30.02	-1.39	258277.700	3.0	300212.300	4.0	238.6622	26.01	-1.41	30764.460	3.5	72651.910	3.5
238.3977	23.01	-5.91	20242.320	4.0	62176.240	4.0	238.6646	26.01	-3.00	42439.880	0.5	84329.910	1.5
238.4001	23.01	-1.01	8841.970	3.0	50775.470	2.0	238.6666	23.02	-2.53	105282.650	2.5	147169.340	3.5
238.4013	27.01	-1.49	40694.900	4.0	82628.200	3.0	238.6671	26.02	-2.61	93392.450	3.0	135279.040	2.0
238.4018	24.02	-3.48	131267.300	4.0	173200.500	5.0	238.6679	25.01	-3.51	39826.570	1.0	81713.020	0.0
238.4034	25.00	-4.69	17451.520	2.5	59384.450	1.5	238.6763	24.00	-2.05	7927.470	2.0	49812.460	3.0
238.4050	25.00	-2.25	0.000	2.5	41932.640	3.5	238.6764	27.01	0.37	21624.400	5.0	63509.370	4.0
238.4064	27.02	-4.34	128423.100	1.5	170355.500	2.5	238.6786	26.01	-4.59	36252.960	2.5	78137.530	3.5
238.4108	26.01	-1.14	42334.860	2.5	84266.480	2.5	238.6794	28.01	-4.69	74283.330	0.5	116167.760	1.5
238.4115	24.02	-1.33	116532.100	3.0	158463.600	3.0	238.6805	7.01	-2.76	168892.210	1.0	210776.450	0.0
238.4255	26.01	-3.87	50187.950	3.5	92116.980	4.5	238.6808	25.01	-2.42	43850.420	2.0	85734.620	3.0
238.4280	73.01	0.25	967.890	0.0	42909.273	0.0	238.6810	78.00	-1.44	725.918	0.0	42622.840	0.0
238.4284	22.00	-3.45	0.000	2.0	41928.528	2.0	238.6826	24.00	-3.21	7593.160	2.0	49477.040	1.0
238.4287	23.00	-1.38	0.000	1.5	41928.470	0.5	238.6826	24.00	-2.78	7593.160	2.0	49477.040	2.0
238.4299	25.02	-4.10	136888.700	1.5	178816.960	2.5	238.6845	23.00	-2.34	137.380	2.5	42020.930	3.5
238.4330	25.01	-2.20	44521.520	4.0	86449.240	4.0	238.6890	77.00	0.42	6291.287	0.0	48186.808	0.0
238.4333	26.02	-2.51	93388.750	4.0	135316.420	5.0	238.6891	26.01	-4.34	61726.090	3.5	103608.820	4.5
238.4359	26.02	-1.78	89783.590	4.0	131710.790	5.0	238.6895	24.01	-4.60	47040.540	2.5	88923.200	2.5
238.4386	26.01	-1.05	3117.480	1.5	45044.210	1.5	238.6900	75.01	0.94	20809.640	0.0	62704.985	0.0
238.4391	28.00	0.45	1332.153	3.0	43258.792	4.0	238.6910	16.03	0.37	213507.400	0.5	255389.800	1.5
238.4394	20.02	-3.41	328588.760	3.0	370515.360	3.0	238.7003	25.01	-0.76	31514.350	4.0	73395.120	3.0
238.4396	24.00	-7.33	7593.160	2.0	49519.720	3.0	238.7017	24.01	-3.99	32603.730	2.5	74484.250	2.5
238.4424	26.01	-1.64	44784.780	2.5	86710.840	1.5	238.7029	24.01	-3.02	31531.620	1.5	73411.940	1.5
238.4449	23.02	-4.02	98825.190	3.5	140750.820	2.5	238.7039	10.01	-2.33	305364.030	4.5	347244.170	4.5
238.4452	26.01	-1.73	42401.330	1.5	84326.910	1.5	238.7041	10.01	-0.60	305364.030	4.5	347244.130	5.5
238.4462	8.03	0.53	510569.700	1.5	552495.100	2.5	238.7060	73.01	1.47	4355.506	0.0	46248.043	0.0
238.4517	22.00	0.30	386.874	4.0	42311.310	3.0	238.7090	41.01	0.94	10727.450	0.0	52619.461	0.0
238.4620	76.00	-4.49	2661.698	0.0	44597.101	0.0	238.7101	10.01	-0.68	305365.130	3.5	347244.170	4.5
238.4633	22.00	-5.79	170.132	3.0	42092.520	4.0	238.7172	30.02	-0.86	218540.300	2.0	260418.100	2.0
238.4644	23.00	-1.52	323.420	3.5	42245.610	3.5	238.7189	28.02	-1.46	76237.800	3.0	118115.300	2.0
238.4650	45.00	-4.56	7743.122	0.0	49677.997	0.0	238.7270	26.00	-4.47	11976.239	4.0	53852.330	4.0
238.4662	18.01	-4.70	154181.430	4.5	196103.310	4.5	238.7290	76.00	-0.01	0.000	0.0	41888.501	0.0
238.4712	8.03	0.68	510574.100	2.5	552495.100	3.5	238.7320	17.02	-1.39	201332.000	1.5	243207.200	0.5
238.4712	8.03	-0.62	510574.100	2.5	552495.100	2.5	238.7329	24.01	-3.20	31531.620	1.5	73406.680	0.5
238.4747	28.01	-0.33	57420.160	2.5	99340.550	3.5	238.7362	25.01	-2.34	49427.320	4.0	91301.800	5.0
238.4781	17.01	-4.98	107878.500	2.0	149798.300	2.0	238.7411	24.00	-0.75	7593.160	2.0	49466.770	2.0
238.4803	25.01	-3.86	43528.300	5.0	85447.700	5.0	238.7430	26.01	-1.03	30388.550	4.5	72261.830	5.5
238.4820	74.00	0.16	6129.972	0.0	48061.858	0.0	238.7439	24.01	-4.58	32844.920	1.5	74718.050	1.5
238.4829	25.02	-1.39	89704.690	4.5	131123.640	5.5	238.7460	75.00	-0.39	16212.160	0.0	58097.681	0.0
238.4848	25.01	-2.16	39813.380	2.0	81732.000	1.0	238.7464	27.00	-1.82	4690.180	2.5	46562.870	1.5
238.4859	27.00	-0.66	0.000	4.5	41918.410	3.5	238.7472	23.00	-1.87	137.380	2.5	42009.930	2.5
238.4859	29.01	-1.95	68447.570	3.0	110365.980	2.0	238.7520	41.01	0.84	7823.779	0.0	49708.245	0.0
238.4895	26.01	-1.88	62065.570	3.5	103983.350	3.5	238.7547	28.00	-2.11	3409.925	2.0	45281.152	3.0
238.4945	29.01	-1.49	66418.520	2.0	108335.430	2.0	238.7610	23.02	-3.06	56529.300	0.5	98399.420	0.5
238.4968	18.01	-1.25	160239.350	1.5	202155.860	2.5	238.7635	25.02	-4.32	137282.400	2.5	179152.090	3.5
238.5003	26.01	-1.58	2837.940	2.5	44753.820	3.5	238.7636	26.01	-1.51	42658.230	3.5	84527.890	4.5
238.5009	24.00	-4.38	24093.160	2.0	66008.950	3.0	238.7663	23.03	-1.02	223033.000	3.0	264902.200	3.0
238.5031	30.02	-2.10	258277.700	3.0	300193.100	2.0	238.7714	28.02	-1.45	71067.000	3.0	112935.300	3.0
238.5031	30.02	-2.00	258277.700	3.0	300193.100	3.0	238.7750	79.00	-0.99	9114.300	0.0	50994.731	0.0
238.5036	26.00	-3.48	11976.239	4.0	53891.540	3.0	238.7763	28.01	-0.98	13550.390	3.5	55417.830	3.5
238.5051	18.01	-4.73	154203.970	3.5	196119.020	3.5	238.7784	26.02	-4.13	137763.700	5.0	179630.770	4.0
238.5054	27.02	-4.68	131279.900	3.5	173194.900	2.5	238.7798	28.01	-2.31	74300.930	1.5	116167.760	1.5
238.5054	27.02	-4.68	131279.900	3.5	173194.900	2.5	238.7839	26.00	-3.41	7376.762	4.0	49242.872	3.0
238.5054	27.02	-3.53	131279.900	3.5	173194.900	2.5	238.7839	26.02	-3.31	93412.930	2.0	135279.040	2.0
238.5078	29.01	-2.31	108335.430	2.0	150250.000	2.0	238.7894	26.01	-2.45	42401.330	1.5	84266.480	2.5
238.5156	17.01	-4.01	128621.900	1.0	170535.100	2.0	238.7912	26.00	-5.16	7985.783	2.0	49850.610	3.0
238.5168	17.01	-3.66	128662.500	2.0	170575.500	3.0	238.7930	18.01	-2.43	158167.710	1.5	200032.230	1.5
238.5179	28.01	-3.60	76402.030	2.5	118314.620	2.5	238.7942	10.01	-2.09	280473.580	1.5	322337.880	2.5
238.5183	23.02	-2.88	99508.500	1.5	141421.220	1.5	238.7947	28.01	-4.92	71457.740	3.5	113321.950	4.5
238.5261	24.01	-2.08	38509.070	3.5	80420.430	2.5	238.7959	20.02	-1.11	281139.550	1.0	323003.560	1.0
238.5293	25.01	-4.04	43536.900	4.0	85447.700	5.0	238.8007	26.02	-3.50	147161.360	4.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
238.8702	26.02	-4.65	93388.750	4.0	135239.740	4.0
238.8731	26.02	-2.92	147161.360	4.0	189011.840	4.0
238.8735	26.00	-3.36	7376.762	4.0	49227.160	3.0
238.8749	25.01	-4.82	44138.960	1.0	85989.120	2.0
238.8781	18.02	-1.53	240150.660	0.0	282000.240	1.0
238.8800	82.00	-1.44	10566.135	0.0	52428.158	0.0
238.8912	27.01	-1.53	3350.500	5.0	45197.800	5.0
238.8913	26.02	-2.83	93392.450	3.0	135239.740	4.0
238.8920	9.02	-1.58	390120.770	5.0	431967.930	5.0
238.8980	25.01	-2.78	39813.380	2.0	81659.500	3.0
238.8996	26.01	-1.97	44753.820	3.5	86599.660	2.5
238.9021	25.02	-1.25	91906.100	2.5	133751.500	3.5
238.9069	25.02	-1.73	71831.980	2.5	113676.530	2.5
238.9070	74.00	-1.82	1613.150	0.0	43470.442	0.0
238.9078	13.01	-2.80	105438.400	1.0	147282.800	1.0
238.9078	13.01	-2.33	105438.400	1.0	147282.800	2.0
238.9080	26.02	-4.88	145038.610	3.0	186882.980	3.0
238.9081	23.02	-2.68	105282.650	2.5	147127.000	2.5
238.9110	75.00	-1.42	0.000	0.0	41856.591	0.0
238.9110	73.01	-1.98	9598.245	0.0	51454.836	0.0
238.9147	23.01	-2.72	11908.270	2.0	53751.460	1.0
238.9161	25.02	-1.45	89052.440	3.5	130895.390	4.5
238.9200	42.01	-1.52	23713.311	0.0	65568.325	0.0
238.9218	24.00	-2.44	7810.820	1.0	49652.760	2.0
238.9241	18.02	-1.66	240257.590	1.0	282099.140	2.0
238.9403	25.00	-4.71	17451.520	2.5	59290.230	3.5
238.9427	26.01	-1.68	44929.590	2.5	86767.770	2.5
238.9433	24.00	-1.37	7750.780	0.0	49588.970	1.0
238.9530	26.02	-1.59	92523.910	5.0	134360.400	4.0
238.9530	24.01	-4.45	25035.640	5.0	66872.120	5.0
238.9530	78.00	-1.98	806.575	0.0	42655.809	0.0
238.9540	49.00	-1.56	0.000	0.0	41849.059	0.0
238.9541	27.01	-1.36	4950.000	2.0	46786.300	1.0
238.9551	27.00	-1.89	1406.840	2.5	43242.950	2.5
238.9564	17.01	-2.40	197979.000	2.0	161634.900	2.0
238.9623	28.01	-2.28	92373.450	2.5	134208.300	2.5
238.9654	9.02	-2.36	415720.860	2.5	457555.170	1.5
238.9685	26.02	-2.52	88923.070	6.0	130756.840	6.0
238.9686	9.02	-2.52	417970.800	1.5	459804.550	1.5
238.9698	23.01	-1.18	8640.210	2.0	50473.760	1.0
238.9705	24.01	-2.42	36101.820	3.5	77935.240	2.5
238.9750	26.02	-4.54	158562.700	4.0	200395.330	5.0
238.9763	24.01	-1.45	32603.730	2.5	74436.140	2.5
238.9774	28.01	-2.95	51557.850	3.5	93390.060	2.5
238.9801	26.01	-2.99	62151.610	2.5	103983.350	3.5
238.9864	26.01	-1.23	26170.190	5.0	68000.820	4.5
238.9866	27.02	-3.94	128524.900	2.5	170355.500	2.5
238.9875	26.00	-6.53	7728.058	3.0	49558.500	4.0
238.9956	24.01	-2.74	25043.100	1.5	66872.120	5.0
238.9964	17.01	-2.37	119842.100	1.0	161671.000	0.0
238.9973	26.00	-1.76	704.003	2.0	42532.729	3.0
238.9980	24.01	-4.24	47227.500	3.5	89056.100	2.5
238.9982	25.02	-4.20	135858.960	2.5	177687.540	3.5
238.9984	27.00	-1.81	4142.660	3.5	45971.190	3.5
239.0049	15.01	-1.38	88193.000	4.0	130020.400	3.0
239.0052	9.02	-2.23	349007.250	2.5	390834.600	2.5
239.0077	18.01	-3.59	150147.620	2.5	191974.530	1.5
239.0163	24.02	-1.36	115843.500	6.0	157668.900	6.0
239.0177	26.01	-4.08	62158.190	4.5	103983.350	3.5
239.0187	17.01	-2.28	119809.900	3.0	161634.900	2.0
239.0204	26.01	-1.28	31364.470	1.5	73189.160	1.5
239.0301	26.01	-1.16	31364.470	1.5	73187.460	5.0
239.0311	26.02	-4.33	157982.000	3.0	199804.810	4.0
239.0370	74.01	-1.53	7339.834	0.0	49174.362	0.0
239.0382	26.02	-4.98	158562.700	4.0	200384.280	3.0
239.0415	15.01	-3.49	87805.000	2.0	129626.000	1.0
239.0431	26.01	-1.25	31368.450	5.0	73189.160	1.5
239.0445	8.02	-1.23	290956.620	1.0	332777.100	1.0
239.0522	26.00	-6.38	7985.783	2.0	49804.900	3.0
239.0529	26.01	-1.22	31368.450	5.0	73187.460	5.0
239.0596	26.01	-3.09	20340.360	5.0	62158.190	4.5
239.0599	25.02	-3.23	135869.760	3.5	177687.540	3.5
239.0620	77.00	-1.29	2823.013	0.0	44653.166	0.0
239.0677	25.02	-1.63	89307.220	5.0	131123.640	5.0
239.0693	26.02	-3.22	137763.700	5.0	179579.830	5.0
239.0702	25.00	-4.23	17568.480	1.5	59384.450	1.5
239.0718	22.00	-4.64	170.132	3.0	41985.830	3.0
239.0730	70.01	-1.29	21293.585	0.0	63121.813	0.0
239.0752	13.01	-3.98	105467.700	2.0	147282.800	1.0
239.0752	13.01	-2.80	105467.700	2.0	147282.800	2.0
239.0752	13.01	-2.05	105467.700	2.0	147282.800	3.0
239.0765	26.01	-1.32	44784.780	2.5	86599.660	2.5
239.0782	23.00	-1.70	323.420	3.5	42138.000	2.5
239.0801	18.01	-3.52	158167.710	1.5	199981.940	1.5
239.0852	28.01	-3.88	94705.930	3.5	136519.280	4.5
239.0861	30.02	-1.97	216464.500	4.0	258277.700	3.0
239.0869	24.01	-4.35	46823.640	5.0	88636.700	1.5
239.0869	7.01	-1.79	168892.210	1.0	210705.260	2.0
239.0874	23.00	-3.16	137.380	2.5	41950.350	2.5
239.0877	18.01	-2.97	147227.970	5.0	189040.870	1.5
239.0889	17.01	-4.09	119842.100	1.0	161654.800	1.0
239.0945	24.00	-4.76	24282.340	4.0	66094.060	4.0
239.1001	23.02	-1.71	102961.280	3.5	144772.020	3.5
239.1047	26.01	-1.71	43238.610	2.5	85048.560	1.5
239.1095	28.02	-1.56	71841.900	1.0	113651.000	2.0
239.1100	25.01	-3.93	52373.180	3.0	94182.200	3.0
239.1135	26.02	-4.70	144570.530	3.0	186378.940	4.0
239.1155	10.01	-2.89	280262.330	3.5	322070.380	3.5
239.1180	77.00	-1.36	2823.013	0.0	44643.369	0.0
239.1187	18.02	-1.03	240291.660	2.0	282099.140	2.0
239.1218	23.01	-2.43	13562.680	3.0	55349.630	3.0
239.1226	23.02	-1.46	105320.180	1.5	147127.000	2.5
239.1280	75.00	-1.60	11534.025	0.0	53352.633	0.0
239.1300	26.01	-2.04	20516.980	2.5	62322.500	3.5
239.1303	23.02	-2.19	56256.750	1.5	98062.220	1.5
239.1312	17.01	-4.74	128729.800	3.0	170535.100	2.0
239.1347	13.01	-2.94	105424.300	0.0	147229.000	1.0
239.1373	26.02	-2.91	93412.930	2.0	135217.170	1.0
239.1400	26.02	-3.01	93512.640	4.0	135316.420	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
239.1409	25.02	-2.26	89898.080	.5	131701.690	1.5
239.1433	25.02	-2.92	91948.300	3.5	133751.500	3.5
239.1436	10.01	-2.68	281720.280	1.5	323523.410	2.5
239.1448	26.02	-2.13	89907.850	4.0	131710.790	5.0
239.1448	26.02	-2.58	89907.850	5.0	131710.790	5.0
239.1454	25.01	-2.35	52379.380	2.0	94182.200	3.0
239.1454	26.01	-3.29	23031.300	1.5	64834.120	1.5
239.1477	26.01	-1.58	2430.080	3.5	44232.510	4.5
239.1519	26.02	-4.71	144501.740	2.0	186303.440	3.0
239.1520	10.01	-3.29	280268.960	2.5	322070.630	2.5
239.1534	10.01	-1.75	280268.960	2.5	322070.630	3.5
239.1548	26.01	-.90	31387.980	2.5	73189.160	1.5
239.1703	25.01	-2.11	52383.720	4.0	94182.200	3.0
239.1725	29.02	-2.00	78779.400	1.5	120577.500	2.5
239.1804	28.01	-.66	66571.340	2.5	108368.050	2.5
239.1808	26.00	-4.29	8154.713	1.0	49951.360	0.0
239.1833	24.02	-2.31	116532.100	3.0	158328.300	2.0
239.1932	27.01	-1.42	27902.500	4.0	69698.970	3.0
239.1932	24.00	-1.44	8307.570	4.0	50102.040	3.0
239.1948	26.02	-4.18	147161.360	4.0	188955.560	3.0
239.1953	10.01	-4.34	280262.330	3.5	322056.440	3.5
239.1976	10.01	-1.94	280262.330	3.5	322056.440	4.5
239.2027	27.00	-.57	1406.840	2.5	43199.650	2.5
239.2028	17.01	-3.23	119842.100	1.0	161634.900	2.0
239.2041	26.02	-3.07	77075.870	1.0	118867.870	1.0
239.2067	26.01	-7.82	23317.600	2.5	65109.710	3.5
239.2079	18.01	-2.14	158167.710	1.5	199959.620	2.5
239.2102	28.01	-1.30	24788.200	1.5	66579.710	1.5
239.2154	13.01	-2.46	105438.400	1.0	147229.000	1.0
239.2163	26.02	-4.39	138103.120	4.0	179893.560	5.0
239.2166	23.01	-3.91	20343.000	2.0	62133.390	3.0
239.2181	24.00	-3.96	24303.940	3.0	66094.060	4.0
239.2190	71.01	-.38	17180.052	0.0	58982.752	0.0
239.2200	28.02	-2.23	78482.900	1.0	120272.700	1.0
239.2240	10.01	-4.20	280262.330	3.5	322051.430	2.5
239.2262	13.01	-1.66	106918.200	1.0	148706.900	0.0
239.2283	28.01	-1.05	66579.710	1.5	108368.050	2.5
239.2316	26.01	-4.50	27314.930	3.5	69102.690	2.5
239.2332	10.01	-1.74	280268.960	2.5	322056.440	3.5
239.2339	26.02	-2.77	140693.360	3.0	182480.720	2.0
239.2345	24.00	-1.87	7810.820	1.0	49598.080	2.0
239.2358	26.00	-2.80	11976.239	4.0	53763.280	3.0
239.2420	44.00	-.12	3064.986	0.0	44863.667	0.0
239.2471	25.02	-2.88	135692.170	3.5	177477.230	2.5
239.2474	28.01	-4.10	58705.950	1.5	100490.950	1.5
239.2519	25.01	-.62	49517.580	5.0	91301.800	5.0
239.2521	24.01	-4.61	30864.610	2.5	72648.790	3.5
239.2581	28.01	-.71	24788.200	1.5	66571.340	2.5
239.2596	27.01	-.36	22009.230	4.0	63792.100	4.0
239.2599	28.01	-3.09	92373.450	2.5	134156.280	1.5
239.2619	10.01	-2.51	280268.960	2.5	322051.430	2.5
239.2635	24.00	-5.49	0.000	3.0	41782.190	4.0
239.2647	10.01	-3.88	280268.960	2.5	322050.950	1.5
239.2663	26.00	-4.06	12560.933	3.0	54342.640	2.0
239.2663	27.02	-2.85	130801.900	4.5	172583.600	3.5
239.2663	27.02	-2.85	130801.900	4.5	172583.600	3.5
239.2663	27.02	-3.77	130801.900	4.5	172583.600	3.5
239.2690	29.01	-2.61	88605.160	1.0	130386.400	2.0
239.2702	25.01	-2.62	44521.520	4.0	86302.550	3.0
239.2784	18.01	-3.23	163299.470	2.5	205079.070	2.5
239.2803	24.01	-1.74	42898.120	2.5	84677.390	3.0
239.2823	18.01	-4.07	147875.860	2.5	189654.780	2.5
239.2856	24.01	-5.46	21822.860	2.5	63601.200	3.0
239.2867	24.00	-1.02	7810.820	1.0	49588.970	1.0
239.2902	26.01	-1.87	60807.280	4.5	102584.810	5.0
239.2902	24.00	-6.22	7593.160	2.0	49370.700	3.0
239.2930	74.01	-.25	4678.136	0.0	46467.908	0.0
239.2961	28.00	-2.63	879.813	2.0	42656.317	1.5
239.3024	25.02	-3.65	137908.200	5.5	179683.610	4.5
239.3035	26.01	-2.29	23031.300	1.5	64806.520	2.5
239.3041	30.02	-.14	216464.500	4.0	258239.600	4.0
239.3090	26.00	-3.94	6928.266	5.0	48702.518	4.0
239.3110	28.00	-1.78	879.813	2.0	42653.723	2.0
239.3110	90.01	-.58	4436.164	0.0	46222.793	0.0
239.3145	23.02	-4.24	99941.200	3.5	141714.500	2.0
239.3172	20.02	-.61	281882.240	2.0	323655.060	2.0
239.3180	72.01	-.37	12824.546	0.0	54609.953	0.0
239.3259	29.01	-4.01	71531.500	3.0	113302.800	4.0
239.3264	26.02	-4.69	137423.000	3.0	17194.220	4.0
239.3360	72.01	-.19	4839.451	0.0	46621.715	0.0
239.3487	25.02	-3.22	135709.900	2.5	177477.230	2.5
239.3503	26.02	-4.99	144501.740	2.0	186268.790	2.0
239.3543	22.00	-6.94	6598.749	2.0	48365.090	3.0
239.3580	23.02	-.33	44110.040	2.5	58575.740	3.0
239.3595	26.02	-2.32	77102.430	2.0	118867.870	1.5
239.3597	15.01	-1.96	87805.000	2.0	129570.400	1.0
239.3631	26.02	-2.22	76956.790	3.0	118721.600	2.0
239.3633	27.00	-1.33	4690.180	2.5	64654.950	1.0
239.3650	75.00	-.05	13711.778	0.0	55488.980	0.0
239.3677	24.01	-3.35	63601.200	3.5	105365.200	4.0
239.3739	24.01	-2.54	48749.570	.5	90512.500	1.0
239.3743	26.02	-4.31	158562.700	4.0	200325.560	4.0
239.3790	82.00	-.23	10566.135	0.0	52340.894	0.0
239.3810	25.02	-3.08	136798.610	2.5	178558.300	1.5
239.3812	23.01	-1.72	13542.680	3.0	55304.340	4.0
239.3830	72.01	-.23	0.000	0.0	41774.061	0.0
239.3832	13.01	-2.24	105467.700	2.0	147229.000	1.0
239.3907	27.01	-1.29	4560.800	3.0	46320.800	4.0
239.3924	27.02	-3.23	129706.900	3.5	171466.600	2.0
239.3924	27.02	-3.23	129706.900	3.5	171466.600	2.0
239.3976	27.02	-3.33	130183.800	3.5	171942.600	4.0
239.3985	25.02	-4.72	135510.700	2.5	177269.340	1.0
239.3990	26.02	-4.76	68847.110	2.0	128605.650	1.0
239.3990	24.01	-.33	32355.940	3.5	74114.480	3.0
239.3993	29.01	-3.44	72724.000	2.0	114482.500	2.0
239.3999	22.00	-3.89	170.132	3.0	41928.528	2.0
239.4008	26.00	-2.31	7376.762	4.0	49135.003	3.0
239.4016	27.02	-3.50	86327.100	3.5	128085.200	2.0
239.4075	26.00	-5.59	11976.239	4.0	53733.310	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
239.4093	18.01	-4.19	163299.470	2.5	205056.220	1.5	239.7061	26.00	-2.97	7728.058	3.0	49433.108	2.0
239.4099	24.01	-1.80	47751.980	5.5	89508.630	5.5	239.7064	24.00	-4.89	24303.940	3.0	66008.950	3.0
239.4117	23.02	-1.51	99440.100	2.5	141196.430	2.5	239.7090	74.01	.85	3145.643	0.0	44862.892	0.0
239.4140	25.00	-4.29	23549.200	2.5	65305.130	3.5	239.7117	22.00	-9.68	6661.003	3.0	48365.090	3.0
239.4165	26.01	-1.89	31387.980	2.5	73143.480	3.5	239.7157	26.02	-4.20	138054.590	5.0	179757.980	4.0
239.4175	27.00	-3.39	7442.410	3.5	49197.740	4.5	239.7172	23.02	-2.19	99804.570	2.5	141507.700	3.5
239.4199	23.01	-5.84	13594.730	2.0	55349.630	3.0	239.7271	25.03	-3.83	131170.100	4.0	172871.500	5.0
239.4247	26.02	-4.96	144843.240	5.0	186597.300	6.0	239.7290	25.01	.33	64456.330	2.0	106157.400	3.0
239.4290	76.00	.41	11292.053	0.0	53058.088	0.0	239.7310	23.02	-3.61	105282.650	2.5	146983.360	2.5
239.4326	8.02	-2.47	324734.220	2.0	366486.910	1.0	239.7310	75.00	-0.06	15082.956	0.0	56796.376	0.0
239.4353	26.01	-2.50	31999.120	3.5	73751.340	4.5	239.7379	26.01	-4.79	43236.610	2.5	84938.150	1.5
239.4360	3.00	-2.74	0.000	0.0	41764.814	0.0	239.7380	27.01	.22	9812.700	4.0	51512.200	3.0
239.4370	75.00	-0.02	11534.025	0.0	53298.665	0.0	239.7398	26.02	-3.63	140693.360	3.0	182392.550	2.0
239.4378	23.00	-1.36	0.000	1.5	41751.780	.5	239.7437	26.01	-4.03	73893.730	1.5	115592.250	1.5
239.4378	23.00	-2.03	0.000	1.5	41751.780	1.5	239.7444	15.01	-1.58	87967.700	3.0	129666.100	2.0
239.4383	24.02	-4.84	131448.800	5.0	173200.500	5.0	239.7480	20.02	-2.96	328606.780	2.0	370304.540	2.0
239.4395	25.01	-0.66	49427.320	4.0	91178.800	4.0	239.7495	23.00	-3.55	323.420	3.5	42020.930	3.5
239.4403	26.02	-2.82	140693.360	3.0	182444.700	3.0	239.7515	26.01	-3.63	60887.660	5.5	102584.810	5.5
239.4426	28.00	-2.06	1713.080	1.0	43464.019	1.0	239.7546	18.01	-2.78	163299.470	2.5	204996.090	3.5
239.4523	28.01	.31	13550.390	3.5	55299.560	4.5	239.7589	25.00	-3.20	25285.430	4.5	66981.300	3.5
239.4555	17.02	-2.76	201332.000	1.5	243080.700	1.5	239.7599	24.01	-4.82	47227.500	3.5	88923.200	2.5
239.4622	26.01	-2.42	21812.040	1.5	63559.560	.5	239.7610	76.00	-0.30	11292.053	0.0	53000.254	0.0
239.4623	26.02	-2.27	89697.520	3.0	131445.030	2.0	239.7619	23.01	-2.27	13609.000	4.0	55304.340	4.0
239.4635	25.00	-4.07	17637.150	.5	59384.450	1.5	239.7639	11.05	-.69	1005713.000	2.0	1047408.000	2.0
239.4640	26.01	-1.23	60837.590	6.5	102584.810	5.5	239.7660	9.02	-3.00	389737.630	.5	431432.270	1.5
239.4698	26.00	-2.65	11976.239	4.0	53722.440	5.0	239.7713	26.02	-3.36	140750.980	2.0	182444.700	3.0
239.4837	28.01	-.64	24835.930	.5	66579.710	1.5	239.7720	74.00	-.25	3306.958	0.0	45013.246	0.0
239.4855	25.02	-3.63	135944.080	4.5	177687.540	3.5	239.7721	26.02	-3.23	138054.590	5.0	179748.170	5.0
239.4893	26.01	-1.11	20340.360	5.5	62083.170	4.5	239.7722	25.00	-4.06	25287.740	3.5	66981.300	3.5
239.4901	18.02	-.83	240257.590	1.0	282000.260	1.0	239.7742	24.01	-.75	25033.950	3.5	66727.160	2.5
239.4938	23.01	-5.40	20343.000	2.0	62085.020	2.0	239.7778	23.00	-.41	553.020	4.5	42245.610	3.5
239.4945	26.01	-2.18	30388.550	4.5	72130.440	4.5	239.7837	25.00	-2.10	23296.670	3.5	64988.220	3.5
239.4983	28.00	-1.80	879.813	2.0	42621.048	3.0	239.7865	25.01	.38	64473.130	3.0	106164.200	4.0
239.5018	23.01	-2.43	13609.000	4.0	55349.630	3.0	239.7886	25.02	-1.48	89204.690	4.5	130895.390	4.5
239.5029	26.00	-5.60	12560.933	3.0	54301.360	4.0	239.7892	27.02	-1.98	86327.100	3.5	128017.700	3.5
239.5029	26.00	-.89	12560.933	3.0	54301.360	4.0	239.7898	26.01	-3.08	31364.470	1.5	73054.970	2.5
239.5032	25.02	-3.25	137599.200	3.5	179339.590	2.5	239.7910	18.02	-.59	240257.590	1.0	281947.880	0.0
239.5157	12.02	-.35	425640.300	2.0	467378.500	1.0	239.7927	24.01	-4.82	39742.360	2.5	81432.360	3.5
239.5205	23.02	-2.12	103034.650	4.5	144772.020	3.5	239.7980	74.00	-.26	3306.958	0.0	45008.724	0.0
239.5262	22.00	-4.66	170.132	3.0	41906.510	2.0	239.7997	26.02	-4.69	138187.930	3.0	179876.710	4.0
239.5384	25.01	-1.04	31661.720	3.0	73395.970	2.0	239.8010	70.01	-2.71	0.000	0.0	41701.244	0.0
239.5390	76.00	-.45	2661.698	0.0	44408.553	0.0	239.8030	23.03	-1.72	222794.000	2.0	264482.800	2.0
239.5404	27.02	-3.25	86283.800	4.5	128017.700	3.5	239.8046	23.02	-2.47	99508.500	1.5	141196.430	2.5
239.5416	26.01	-.93	667.640	2.5	42401.330	1.5	239.8088	24.02	-1.94	112398.500	4.0	154085.700	3.0
239.5424	28.01	-2.05	93528.440	3.5	135261.990	4.5	239.8127	23.00	-1.08	323.420	3.5	42009.930	2.5
239.5433	25.01	-1.65	31661.720	3.0	73395.120	3.0	239.8180	76.00	-.09	10969.423	0.0	52667.711	0.0
239.5450	23.03	-.34	215957.700	3.0	257690.800	3.0	239.8186	26.02	-2.94	105929.160	3.0	147614.650	2.0
239.5461	26.02	-4.61	144570.530	3.0	186303.440	3.0	239.8221	26.00	-2.95	11976.239	4.0	53661.130	3.0
239.5496	28.01	-1.64	67031.020	.5	108763.320	.5	239.8256	25.01	-.20	64473.130	3.0	106157.400	3.0
239.5507	26.00	-1.60	7376.762	4.0	49108.876	4.0	239.8268	24.01	-2.46	25043.100	1.5	66727.160	2.5
239.5560	24.01	-3.99	46905.520	1.5	88636.700	1.5	239.8277	26.02	-3.47	93412.930	2.0	135096.840	3.0
239.5607	23.02	-2.04	56669.050	1.5	98399.420	.5	239.8297	28.01	-.62	58705.950	1.5	100389.520	2.5
239.5627	26.01	.47	384.770	3.5	42114.790	4.5	239.8325	25.02	-1.38	71395.270	.5	113078.340	1.5
239.5643	26.02	-1.95	140750.980	2.0	182480.720	2.0	239.8367	18.01	-1.48	158428.030	.5	200110.380	.5
239.5644	26.02	-2.75	105906.230	2.0	147635.950	3.0	239.8370	27.01	-.36	21624.400	5.0	63306.700	5.0
239.5652	18.02	.39	225147.930	2.0	266877.500	3.0	239.8389	26.01	-5.44	27620.390	2.5	69304.350	1.5
239.5659	26.02	-1.65	76956.790	3.0	118686.250	4.0	239.8429	26.02	-2.31	90423.680	2.0	132104.940	2.0
239.5721	27.00	-2.67	1809.330	1.5	43537.710	1.5	239.8480	41.01	1.04	10162.848	0.0	51855.920	0.0
239.5766	26.01	-4.91	20516.980	2.5	62244.570	1.5	239.8495	24.01	-1.39	25047.040	2.5	66727.160	2.5
239.5778	24.00	-1.06	8095.210	3.0	49822.590	2.0	239.8544	25.02	-4.02	137137.690	1.5	178816.960	2.5
239.5794	26.02	-1.90	93512.640	4.0	135239.740	4.0	239.8559	20.00	-1.79	0.000	0.0	41679.008	1.0
239.5801	25.01	-1.97	49291.310	3.0	91018.300	3.0	239.8567	25.02	-1.56	89052.440	3.5	130731.310	3.5
239.5823	24.00	-4.47	24282.340	4.0	66008.950	3.0	239.8604	23.01	-2.77	30613.970	4.0	72292.200	4.0
239.5823	23.02	-2.80	99804.570	2.5	141531.170	1.5	239.8610	18.01	-2.85	163299.470	2.5	204997.590	2.5
239.5843	24.00	-2.93	7750.780	0.0	49477.040	1.0	239.8630	28.01	-2.62	29070.930	1.5	70748.700	.5
239.5880	76.00	-.21	0.000	0.0	41738.317	0.0	239.8660	26.01	.39	44446.890	3.5	86124.140	4.5
239.5892	27.02	-2.80	131883.900	2.5	173609.300	1.5	239.8702	26.00	-2.23	12560.933	3.0	54237.460	4.0
239.5892	27.02	-2.80	131883.900	2.5	173609.300	1.5	239.8710	75.00	-.43	16534.792	0.0	58223.867	0.0
239.5892	27.02	-3.13	131883.900	2.5	173609.300	1.5	239.8784	24.02	-2.44	116391.600	2.0	158066.700	3.0
239.5895	26.02	-2.37	140693.360	3.0	182418.700	4.0	239.8786	25.01	.46	64493.830	4.0	106168.900	5.0
239.5898	24.00	-3.49	7927.470	2.0	49652.760	2.0	239.8807	30.02	-.26	218909.400	1.0	260584.100	1.0
239.5967	24.02	-3.99	111375.000	3.0	153099.100	4.0	239.8885	8.01	-2.64	214169.740	.5	255843.100	1.5
239.5995	18.01	-2.21	158428.030	.5	200151.640	1.5	239.8911	17.01	-1.30	145466.500	1.0	187141.400	2.0
239.6044	24.00	-1.99	7927.470	2.0	49650.220	3.0	239.8940	16.03	.62	213717.400	1.5	255389.800	2.5
239.6156	25.00	-4.38	25287.740	3.5	67008.540	2.5	239.8940	16.03	-.33	213717.400	1.5	255389.800	1.5
239.6170	78.00	-.36	13389.148	0.0	55122.414	0.0	239.8948	28.01	-4.14	73893.730	1.5	115565.980	2.5
239.6213	26.02	-3.82	157982.000	3.0	199701.820	3.0	239.8976	13.02	-.45	167612.750	2.5	209284.530	3.5
239.6242	26.02	-2.57	105895.350	1.0	147614.650	2.0	239.8982	25.01	-4.64	43696.190	3.0	85367.850	2.0
239.6243													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
239.9600	82.00	-1.50	10566.135	0.0	52239.747	0.0	240.2275	26.01	-2.32	44929.590	2.5	86544.140	1.5
239.9605	26.01	-0.86	62322.500	3.5	103983.350	3.5	240.2279	10.01	-4.78	277325.600	1.5	318940.080	1.5
239.9637	26.01	-0.39	31483.200	3.5	73143.480	3.5	240.2283	23.00	-1.35	137.380	2.5	41751.780	1.5
239.9659	24.01	-0.68	35810.500	4.5	77270.400	4.5	240.2302	24.01	-2.76	25035.640	.5	66649.710	1.5
239.9686	23.02	-0.43	44646.960	4.5	86306.400	4.5	240.2328	8.01	-3.12	214229.480	1.5	255843.100	1.5
239.9735	24.01	-1.65	63708.620	4.5	105365.200	4.5	240.2347	27.02	-2.79	131581.600	3.5	173194.900	2.5
239.9773	26.02	-2.67	140750.980	2.0	182408.910	2.0	240.2431	8.01	-4.85	234454.450	2.5	276066.300	1.5
239.9792	26.02	-3.71	138103.120	4.0	179760.720	3.0	240.2431	8.01	-4.05	234454.450	2.5	276066.300	2.5
239.9844	24.02	-1.18	116967.000	4.0	158623.700	4.0	240.2440	74.00	-0.15	13711.778	0.0	55336.127	0.0
239.9871	26.02	-3.36	90423.680	2.0	132079.910	3.0	240.2441	25.02	-3.48	97023.800	3.5	138635.460	2.5
239.9887	24.00	-3.69	7810.820	1.0	49466.770	2.0	240.2454	26.01	-1.68	42114.790	4.5	83726.240	3.5
239.9897	28.01	-1.05	74300.930	1.5	115956.710	2.5	240.2468	30.02	-2.37	216464.500	4.0	258075.700	3.0
239.9920	73.01	-0.15	3145.643	0.0	44813.699	0.0	240.2490	22.00	-7.14	170.132	3.0	41780.950	4.0
239.9950	26.02	-3.05	138103.120	4.0	179757.980	4.0	240.2510	25.01	-2.53	37847.900	2.0	79458.380	2.0
239.9954	26.01	-0.77	20516.980	2.5	62171.760	3.5	240.2560	27.00	-1.89	5075.830	1.5	46685.430	1.5
239.9959	23.00	-1.83	0.000	1.5	41654.700	2.5	240.2598	26.01	-2.00	2837.940	2.5	44446.890	3.5
239.9989	26.01	-2.48	21308.080	1.5	62962.260	1.5	240.2613	26.01	-3.44	20516.980	2.5	62125.660	1.5
240.0048	26.01	-2.14	21812.040	1.5	63465.190	1.5	240.2624	26.01	-1.22	31483.200	3.5	73091.700	4.5
240.0115	29.01	-1.64	26264.400	2.0	67916.390	1.0	240.2638	26.01	.18	42658.230	3.5	84266.480	2.5
240.0136	18.01	-2.31	163299.470	2.5	204951.090	3.5	240.2652	23.01	-6.49	13741.610	3.0	55349.630	3.0
240.0153	25.01	.57	64518.570	5.0	106169.900	6.0	240.2662	24.01	-1.98	39824.520	4.5	81432.360	3.5
240.0162	23.01	-3.71	13490.840	2.0	55142.010	3.0	240.2697	25.01	-2.60	37851.150	3.0	79458.380	2.0
240.0201	23.01	-4.46	30641.710	3.0	72292.200	4.0	240.2733	24.01	-3.22	25043.100	1.5	66649.710	1.5
240.0211	25.01	.10	64518.570	5.0	106168.900	5.0	240.2757	26.01	-2.30	43238.610	2.5	84844.810	2.5
240.0217	26.02	-2.85	105906.230	2.0	147556.450	1.0	240.2766	26.02	-3.60	147406.140	5.0	189011.840	4.0
240.0227	24.01	-0.99	32854.460	4.5	74504.510	4.5	240.2872	18.01	-3.34	158428.030	.5	200032.230	1.5
240.0273	26.01	-0.84	22637.190	4.5	64286.440	3.5	240.2878	28.02	-1.42	75646.900	4.0	117251.000	3.0
240.0287	27.01	-0.32	40694.900	4.0	82343.900	4.0	240.2961	24.01	-2.38	25047.040	2.5	66649.710	1.5
240.0344	26.01	.10	26352.800	4.5	68000.820	4.5	240.2967	24.01	-3.88	46823.640	.5	88426.200	.5
240.0375	28.01	-3.11	92325.850	3.5	133973.330	2.5	240.3032	24.01	-4.54	32854.460	4.5	74455.900	4.5
240.0379	24.01	-2.37	32836.840	3.5	74484.250	2.5	240.3040	75.01	.60	23229.366	0.0	64843.322	0.0
240.0414	25.01	-1.19	37811.570	1.0	79458.380	2.0	240.3090	78.00	-0.12	6049.314	0.0	47662.404	0.0
240.0443	26.02	-0.64	77075.300	1.0	118721.600	2.0	240.3122	28.01	-1.87	92373.450	2.5	133973.330	2.5
240.0478	28.01	-0.57	91800.050	4.5	133445.750	4.5	240.3154	23.01	-2.83	13542.680	3.0	55142.010	3.0
240.0482	25.01	-1.13	64518.570	5.0	106164.200	4.0	240.3155	24.01	-3.85	32836.840	3.5	74436.140	2.5
240.0562	27.00	-1.48	8460.810	2.5	50105.050	1.5	240.3170	23.01	-2.80	12545.150	4.0	54144.200	4.0
240.0630	73.01	1.87	6129.972	0.0	47785.704	0.0	240.3175	22.00	-4.58	386.874	4.0	41985.830	3.0
240.0661	25.02	-2.18	135041.250	1.5	176683.760	2.5	240.3238	23.01	-1.71	13609.000	4.0	55206.870	5.0
240.0716	26.02	-2.96	140750.980	2.0	182392.550	2.0	240.3238	18.01	-1.68	163506.450	3.5	205104.320	4.5
240.0720	75.00	-0.04	14921.641	0.0	56575.811	0.0	240.3254	23.03	-0.79	223304.600	4.0	264902.200	4.0
240.0780	72.01	-0.56	2984.328	0.0	44637.457	0.0	240.3286	10.01	-1.81	280473.580	1.5	322070.630	2.5
240.0801	26.02	-4.60	138264.470	6.0	179904.650	6.0	240.3327	26.02	-3.09	90483.590	3.0	132079.910	3.0
240.0838	27.00	-1.55	4690.180	2.5	46329.630	2.5	240.3338	29.01	-0.14	66418.520	2.0	108014.660	3.0
240.0845	24.01	-3.27	32844.920	1.5	74484.250	2.5	240.3340	27.00	-1.72	5075.830	1.5	46671.940	2.5
240.0880	83.00	-0.19	15324.929	0.0	56978.323	0.0	240.3346	26.02	-3.05	83358.880	2.0	124954.880	1.0
240.0928	28.01	-2.00	71770.830	2.5	113408.710	1.5	240.3346	17.02	-0.14	204541.200	2.5	246137.200	2.5
240.0964	25.01	-2.86	30684.810	1.0	72322.070	0.0	240.3363	27.02	-3.64	83773.400	1.5	125369.100	2.5
240.0980	18.01	-3.60	159393.310	1.5	201030.300	.5	240.3365	26.02	-4.08	158729.890	3.0	200325.560	4.0
240.1009	28.01	-2.87	71770.830	2.5	113407.310	2.5	240.3385	26.01	-2.82	60989.480	4.5	102584.810	5.5
240.1046	28.01	-4.19	29070.930	1.5	70706.770	1.5	240.3540	76.00	.12	10082.190	0.0	51687.489	0.0
240.1048	25.01	-3.80	30684.810	1.0	72320.620	1.0	240.3554	26.02	-1.06	88663.870	4.0	130256.270	5.0
240.1092	25.01	-1.81	31760.930	2.0	73395.970	2.0	240.3563	24.00	-3.27	7927.470	2.0	49519.720	3.0
240.1116	26.01	-4.23	20516.980	2.5	62151.610	2.5	240.3610	42.01	.61	23713.311	0.0	65317.398	0.0
240.1130	76.00	.72	8630.355	0.0	50277.413	0.0	240.3616	25.00	-3.65	23296.670	3.5	64888.000	4.5
240.1141	26.00	-3.70	11976.239	4.0	53610.440	4.0	240.3622	24.01	-2.46	32844.920	1.5	74436.140	2.5
240.1141	25.01	-2.99	31760.930	2.0	73395.120	3.0	240.3634	26.00	-1.01	12968.552	2.0	54559.560	3.0
240.1236	25.01	-1.61	48317.850	4.0	89950.400	3.0	240.3636	25.01	-0.94	49427.320	4.0	91018.300	3.0
240.1239	25.02	-3.39	134286.000	.5	175918.500	.5	240.3680	73.01	.91	11775.998	0.0	53378.874	0.0
240.1240	26.01	-1.57	44915.070	3.5	86547.550	2.5	240.3735	25.00	-2.33	25265.740	5.5	66855.000	4.5
240.1254	26.01	-3.27	43238.610	2.5	84870.840	2.5	240.3766	28.01	-4.53	92792.080	3.5	134380.820	3.5
240.1256	30.02	-1.51	216607.400	5.0	258239.600	4.0	240.3798	25.02	-2.77	89307.220	5.5	130895.390	4.5
240.1279	26.00	-2.97	12968.552	2.0	54600.350	3.0	240.3825	26.01	-1.67	30764.460	3.5	72352.170	3.5
240.1290	74.00	-1.15	6129.972	0.0	47774.255	0.0	240.3839	26.02	-3.45	93388.750	4.0	134976.220	3.0
240.1300	26.01	.28	44784.780	2.5	86416.220	3.5	240.3850	76.00	.23	8630.355	0.0	50230.288	0.0
240.1329	26.01	-1.01	45079.910	2.5	86710.840	1.5	240.3866	24.01	-1.30	32836.840	3.5	74423.840	3.5
240.1431	24.01	-2.41	32855.090	2.5	74484.250	2.5	240.3949	28.01	-0.98	58493.210	2.5	100078.780	1.5
240.1460	27.00	-3.25	3482.820	4.5	45111.480	4.5	240.3968	22.00	-2.16	0.000	2.0	41585.240	3.0
240.1475	30.02	-0.08	219360.000	4.0	260988.400	4.0	240.3968	18.02	-3.11	209127.040	1.0	250712.270	2.0
240.1478	26.01	-1.15	31387.980	2.5	73016.330	3.5	240.3978	27.01	.31	28111.900	2.0	69696.970	3.0
240.1534	25.02	-2.85	134638.390	1.5	176265.780	1.5	240.3985	24.01	-1.89	49006.150	1.5	90591.100	2.5
240.1560	23.00	-4.21	323.420	3.5	41950.350	2.5	240.4028	26.02	-3.38	93512.640	4.0	135096.840	3.0
240.1573	25.01	-4.97	27589.030	2.0	69215.730	1.0	240.4053	26.02	-2.80	93392.450	3.0	134976.220	3.0
240.1590	25.01	-3.30	41204.340	5.0	82830.750	4.0	240.4058	20.02	-4.12	328588.760	3.0	370172.430	4.0
240.1599	27.00	-2.07	1809.330	1.5	43435.580	.5	240.4103	27.01	-0.56	26074.600	2.0	65657.500	1.0
240.1680	75.00	-0.19	11695.340	0.0	53332.860	0.0	240.4167	27.01	-0.29	5204.500	1.0	46786.300	1.0
240.1716	25.01	-1.30	31760.930	2.0	73385.150	1.0	240.4184	23.02	.20	43942.490	1.5	85524.000	2.5
240.1731	27.00	-4.87	4142.660	3.5	45766.630	3.5	240.4197	27.00	.22	1406.840	2.5	42988.120	3.5
240.1749	25.00	-2.98	23296.670	3.5	64920.030	3.5	240.4210	24.01	-3.26	32855.090	2.5	74436.140	2.5
240.177													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
240.4889	23.02	-4.50	99181.500	1.5	140750.620	2.5	240.7428	24.00	-2.06	8095.210	3.0	49620.690	4.0
240.4922	24.01	-2.21	32855.090	2.5	74423.840	3.5	240.7442	26.02	-3.60	138054.590	5.0	179579.830	5.0
240.4942	9.02	-8.89	349266.200	3.5	390834.600	2.5	240.7457	28.01	-3.83	92325.850	3.5	133850.830	3.5
240.4983	26.01	.36	44915.070	3.5	86482.750	3.5	240.7461	26.02	-2.58	93412.930	2.0	134937.840	2.0
240.4987	18.02	.17	225155.180	1.0	266722.800	2.0	240.7490	24.02	-3.38	117099.300	4.0	158623.700	4.0
240.5008	25.00	-2.33	25287.740	3.5	66855.000	4.5	240.7529	20.02	-1.38	281139.550	1.0	322663.280	0.0
240.5025	25.02	-3.39	135116.800	1.5	176683.760	2.5	240.7570	73.00	-1.34	1935.780	0.0	43471.436	0.0
240.5033	24.01	-4.56	33418.110	2.5	74984.930	1.5	240.7590	77.00	-2.26	7017.204	0.0	48552.515	0.0
240.5052	23.02	-1.23	99941.200	3.5	141507.700	3.5	240.7593	23.01	-2.20	12621.570	5.0	54144.200	4.0
240.5060	75.00	.64	11695.340	0.0	53274.344	0.0	240.7612	24.02	-3.27	112371.200	2.0	153893.500	2.0
240.5166	28.01	-8.85	29070.930	1.5	70635.460	2.5	240.7652	28.01	-3.55	76727.360	5.0	118248.980	5.5
240.5208	30.02	.22	216607.400	5.0	258171.200	5.0	240.7658	27.01	.08	10708.100	3.0	52229.600	2.0
240.5227	18.01	-5.59	173347.830	1.5	214911.300	2.5	240.7664	28.01	-4.93	68154.310	1.5	109675.720	.5
240.5238	26.02	-4.13	93412.930	2.0	134976.220	3.0	240.7683	26.01	-3.74	21308.080	1.5	62829.160	.5
240.5260	74.00	-4.49	13227.833	0.0	54803.380	0.0	240.7686	25.01	-2.97	29869.110	2.0	71390.140	3.0
240.5261	23.01	-3.04	20522.140	1.0	62085.020	2.0	240.7706	24.01	-4.77	46905.520	1.5	88426.200	.5
240.5269	24.01	-1.57	35707.660	5.5	72720.400	4.5	240.7760	26.01	-3.37	45079.910	2.5	86599.660	2.5
240.5269	25.00	-2.85	25281.040	2.5	66843.790	1.5	240.7815	30.02	-1.61	219360.000	4.0	260878.800	3.0
240.5270	23.01	-6.54	13741.610	3.0	55304.340	4.0	240.7867	18.01	-2.02	173393.380	2.5	214911.300	2.5
240.5301	27.02	-4.01	129706.900	3.5	171269.100	4.5	240.7880	45.00	-9.95	1451.835	0.0	42982.144	0.0
240.5335	26.02	-2.64	88694.670	5.0	130256.270	5.0	240.7885	28.01	-9.78	67031.020	.5	108548.610	1.5
240.5340	41.01	.61	10566.135	0.0	52140.299	0.0	240.7895	25.01	-2.51	43850.420	2.0	85367.850	2.0
240.5362	26.01	-2.61	21711.890	3.5	63273.030	2.5	240.7901	23.00	-1.05	137.380	2.5	41654.700	2.5
240.5402	18.02	-2.46	209151.820	2.0	250712.270	2.0	240.7928	29.01	-2.83	95565.650	4.0	137082.500	5.0
240.5420	72.01	.41	6291.287	0.0	47864.068	0.0	240.7939	26.01	-1.30	20805.830	4.5	62322.500	3.5
240.5450	76.00	.33	11292.053	0.0	52864.316	0.0	240.7947	26.01	-8.34	23317.000	2.5	64834.120	1.5
240.5460	25.02	-3.25	135709.900	2.5	177269.340	1.5	240.7958	23.01	-3.78	20617.050	2.0	62133.390	3.0
240.5515	29.02	-1.69	80305.200	1.5	121863.700	1.5	240.7972	24.01	-5.57	63849.110	5.5	105365.200	4.5
240.5520	40.00	-8.82	1209.863	0.0	42780.916	0.0	240.8046	26.00	-2.23	7728.058	3.0	49242.872	3.0
240.5523	26.02	-3.09	138103.120	4.0	179661.480	3.0	240.8057	26.00	-2.18	7728.058	3.0	49242.872	3.0
240.5570	24.00	-2.84	8095.210	3.0	49652.760	2.0	240.8086	25.02	-5.58	71564.210	1.5	113078.340	1.5
240.5580	74.00	0.00	1613.150	0.0	43183.166	0.0	240.8105	28.01	-1.71	79923.880	4.5	121437.680	5.5
240.5596	25.01	-4.55	44745.460	2.0	86302.550	3.0	240.8113	24.00	-4.83	20523.940	5.0	62037.600	5.0
240.5600	75.00	-8.82	0.000	0.0	41569.671	0.0	240.8150	50.00	-2.25	8549.697	0.0	50075.349	0.0
240.5615	16.02	-1.47	165770.040	1.0	211326.800	1.0	240.8190	45.00	-1.47	1451.835	0.0	42976.798	0.0
240.5625	25.00	-3.01	25281.040	2.5	66837.640	2.5	240.8207	18.01	-3.48	158167.710	1.5	199679.760	2.5
240.5691	26.01	.17	45044.210	1.5	86599.660	2.5	240.8260	73.01	.53	5565.369	0.0	47089.125	0.0
240.5713	24.01	-2.92	39877.280	3.5	81432.360	3.5	240.8302	23.01	-4.99	20622.990	4.0	62133.390	3.0
240.5717	24.00	-3.14	8095.210	3.0	49650.220	3.0	240.8386	25.01	-2.39	39813.380	2.0	81322.330	1.0
240.5780	18.01	-3.76	158428.030	.5	199981.940	1.5	240.8390	42.00	-4.40	12259.943	0.0	53781.457	0.0
240.5819	23.01	-2.98	20622.990	3.0	62176.240	4.0	240.8401	30.02	.42	218909.400	1.0	260418.100	2.0
240.5823	25.01	-9.77	49465.130	3.0	91018.300	3.0	240.8426	22.00	-6.17	336.874	4.0	41895.150	5.0
240.5824	26.01	-8.84	44929.590	2.5	86482.750	3.5	240.8428	23.01	-2.86	11295.510	0.0	52803.750	1.0
240.5840	25.02	-4.42	137599.200	3.5	179152.090	3.5	240.8459	25.03	-4.28	130969.500	3.0	172477.200	4.0
240.5850	41.01	.62	10727.450	0.0	52292.801	0.0	240.8459	25.03	-1.65	152700.500	4.0	194208.200	3.0
240.5874	24.02	-4.47	111375.000	3.0	152927.300	3.0	240.8537	24.01	-2.32	49006.150	1.5	90512.500	1.5
240.5903	26.01	-3.50	43620.980	1.5	85172.770	.5	240.8540	17.01	-3.11	119842.100	1.0	161348.400	1.0
240.5914	28.02	-1.20	71383.700	2.0	112935.300	3.0	240.8622	24.00	-5.52	8307.570	4.0	49812.460	3.0
240.5933	26.00	-4.04	12560.933	3.0	54112.203	2.0	240.8636	18.01	-2.32	158730.210	2.5	200234.860	2.5
240.5960	76.00	.01	8630.355	0.0	50193.806	0.0	240.8653	26.01	.04	45206.490	.5	86710.840	1.5
240.5966	28.02	-2.08	75123.800	5.0	116674.500	4.0	240.8670	76.00	.43	10969.423	0.0	52486.111	0.0
240.5972	27.02	-4.42	128804.900	1.5	170355.500	2.5	240.8739	24.00	-1.09	8095.210	3.0	49598.080	2.0
240.6013	25.00	-2.89	25287.740	3.5	66837.640	2.5	240.8755	27.01	-2.22	4950.000	2.0	46452.600	2.0
240.6032	24.00	-2.95	7927.470	2.0	49477.040	1.0	240.8789	25.00	-2.78	25281.040	2.5	66783.050	3.5
240.6040	25.01	-2.34	7927.470	2.0	49477.040	2.0	240.8790	38.01	-4.18	14555.900	0.0	56070.519	0.0
240.6042	17.01	-1.66	44899.820	3.0	86449.240	4.0	240.8858	25.01	-5.56	29889.310	3.0	71390.140	3.0
240.6070	24.01	-1.56	119799.000	2.0	161348.400	1.0	240.8898	27.01	-2.10	22009.230	4.0	63509.370	4.0
240.6089	26.01	-2.38	39684.000	3.5	81232.910	2.5	240.8927	18.01	-2.78	150474.900	1.5	191974.530	1.5
240.6115	24.01	-4.05	20516.980	2.5	62065.570	3.5	240.8958	26.00	-3.48	7728.058	3.0	49227.160	3.0
240.6116	25.00	-4.59	31168.780	3.5	72716.910	4.5	240.9030	74.00	-8.84	4758.794	0.0	46269.277	0.0
240.6164	23.01	-6.06	17568.480	1.5	59116.600	2.5	240.9044	25.00	-2.97	25285.430	4.5	66783.050	3.5
240.6166	23.01	-6.06	13594.730	2.0	53142.010	3.0	240.9063	25.02	-3.63	136888.700	1.5	178386.000	.5
240.6188	25.02	-4.44	66625.280	0.0	108172.540	1.0	240.9103	24.02	-2.25	116967.000	4.0	158463.600	3.0
240.6268	27.00	-4.01	94397.200	3.5	135944.080	4.5	240.9123	25.01	-2.46	44315.170	6.0	85811.430	7.0
240.6274	26.02	-1.69	4142.660	3.5	45688.150	2.5	240.9125	27.00	-1.74	4690.180	2.5	46186.410	1.5
240.6294	26.02	-4.96	93392.450	3.0	134937.840	2.0	240.9139	25.01	-3.78	66676.560	2.0	108172.540	1.0
240.6393	28.01	-2.71	83358.880	2.0	124903.920	2.0	240.9152	25.01	-2.32	39826.570	1.0	81322.330	1.0
240.6398	26.01	-1.95	25036.380	2.5	66579.710	1.5	240.9165	28.01	-4.55	94705.930	3.5	136201.460	3.5
240.6418	12.01	-2.47	62065.570	3.5	103608.820	4.5	240.9178	25.00	-2.37	25287.740	3.5	66783.050	3.5
240.6431	26.02	-2.74	71490.190	2.5	113033.090	1.5	240.9187	26.02	-3.53	83358.880	2.0	124854.040	3.0
240.6440	72.01	-8.82	117950.320	4.0	159493.000	3.0	240.9204	28.01	-4.33	79823.030	3.5	121317.890	3.5
240.6445	18.01	-2.21	11856.655	0.0	53411.815	0.0	240.9261	25.01	-4.74	66576.560	2.0	108170.450	2.0
240.6469	12.01	-3.70	160239.350	1.5	201781.790	2.5	240.9301	25.02	-2.21	72183.330	3.5	113676.530	2.5
240.6550	10.01	-2.63	71491.060	1.5	113033.090	1.5	240.9310	23.02	-4.61	99440.100	2.5	140933.140	3.5
240.6550	73.00	-8.82	280797.260	2.5	322337.880	2.5	240.9370	77.00	-5.50	4032.876	0.0	45537.502	0.0
240.6573	25.01	-2.46	1935.780	0.0	43489.041	0.0	240.9372	26.01	-2.50	20830.120	2.5	62322.500	3.5
240.6575	30.02	-2.56	44521.520	4.0	86061.750	3.0	240.9440	17.02	-1.60	201332.000	1.5	242822.800	2.5
240.6575	11.02	-4.8	261286.800	1.0	302827.000	2.0	240.9455	24.01	-2.83	39742.360	2.5	81232.910	2.5</

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
241.0250	45.00	-1.26	3226.301	0.0	44715.773	0.0	241.3180	10.02	-0.26	356766.200	1.0	398192.700	1.0
241.0259	25.02	-3.60	134789.080	5.5	176265.780	1.5	241.3180	47.01	0.31	40490.075	0.0	81929.172	0.0
241.0294	26.01	-1.41	22810.330	3.5	64286.440	3.5	241.3191	27.00	-1.17	5075.830	1.5	46502.150	5.5
241.0306	24.02	-3.01	116967.000	4.0	158442.900	4.0	241.3201	18.02	0.63	226355.960	2.0	267782.100	3.0
241.0363	18.02	-0.01	225402.590	3.0	266877.500	3.0	241.3227	25.01	-4.01	66676.560	2.0	108102.250	3.0
241.0370	75.00	-0.09	11534.025	0.0	53021.431	0.0	241.3258	8.01	-3.58	234454.450	2.5	275879.600	2.5
241.0406	26.01	-1.65	30764.460	3.5	72238.630	2.5	241.3258	8.01	-3.45	234454.450	2.5	275879.600	2.5
241.0420	24.01	-2.41	32844.920	1.5	74310.860	2.5	241.3273	28.02	-4.20	142434.400	2.0	183859.300	3.0
241.0442	26.02	-4.11	138187.930	3.0	179661.480	3.0	241.3276	28.01	-3.36	70358.940	4.5	111783.790	3.5
241.0500	25.02	-3.92	94397.200	3.5	135869.760	3.5	241.3296	24.00	-3.91	8095.210	3.0	49519.720	3.0
241.0519	26.01	0.03	862.630	1.5	42334.860	2.5	241.3308	26.01	-0.34	977.030	5.5	42401.330	1.5
241.0530	26.01	-1.47	43238.610	2.5	84710.660	2.5	241.3310	77.00	-0.24	4032.876	0.0	45469.741	0.0
241.0553	28.01	-4.59	79823.030	3.5	121294.670	4.5	241.3330	72.01	0.08	12017.970	0.0	53454.491	0.0
241.0557	25.01	-2.48	39808.140	3.0	81279.710	4.0	241.3354	25.01	-2.88	39813.380	2.0	81236.890	1.0
241.0582	18.01	-3.85	163506.450	3.5	204977.590	2.5	241.3410	90.01	-0.78	1451.835	0.0	42886.983	0.0
241.0595	25.01	-2.40	29919.220	2.0	71390.140	3.0	241.3475	18.01	-2.82	158730.210	2.5	200151.640	1.5
241.0630	74.00	-0.93	6129.972	0.0	47612.904	0.0	241.3501	26.01	-0.33	45289.840	1.5	86710.840	1.5
241.0634	18.02	0.08	204563.530	1.0	246033.790	2.0	241.3523	25.02	-4.01	137137.690	1.5	178558.300	1.5
241.0730	77.00	0.19	12098.628	0.0	53579.839	0.0	241.3541	10.02	-0.26	356776.520	2.0	398196.830	2.0
241.0738	24.01	-1.58	35610.500	4.5	77078.960	5.5	241.3579	25.01	-2.76	49882.150	4.0	91301.800	5.0
241.0746	28.01	-2.41	13550.390	3.5	55018.710	2.5	241.3631	24.01	-3.16	35569.020	2.5	76987.780	2.5
241.0767	23.01	-4.04	20617.050	2.0	62085.020	2.0	241.3653	24.01	-4.06	32855.090	2.5	74273.480	1.5
241.0770	23.00	-3.31	553.020	4.5	42020.930	3.5	241.3677	9.02	-1.39	348702.800	5.5	390120.770	5.5
241.0807	25.01	-0.91	48333.060	5.0	89800.340	4.0	241.3776	25.00	-3.77	23296.670	3.5	64712.940	2.5
241.0868	18.02	0.19	204563.530	1.0	246029.760	1.0	241.3779	28.01	-2.97	92792.080	3.5	134208.300	2.5
241.0932	18.01	-0.98	157673.320	2.5	199138.450	1.5	241.3781	10.02	-0.13	356776.520	2.0	398192.700	1.0
241.0980	76.00	0.36	12905.203	0.0	54382.113	0.0	241.3809	10.02	-1.43	356776.520	2.0	398192.700	1.0
241.1011	24.01	-1.47	32855.090	2.5	74318.860	2.5	241.3844	22.00	-2.01	141002.930	4.0	182418.700	4.0
241.1022	26.02	-3.70	93512.640	4.0	134976.220	3.0	241.3906	26.01	-4.17	20830.520	2.5	41585.240	3.0
241.1059	25.01	-2.28	44745.460	2.0	86208.400	1.0	241.3911	23.02	-0.49	44110.040	2.5	62244.570	1.5
241.1064	26.01	-0.27	977.030	5.5	42439.880	5.5	241.3930	39.01	-0.23	23632.653	0.0	85524.000	2.5
241.1112	23.01	-5.16	20622.990	3.0	62085.020	2.0	241.3971	22.02	0.40	41703.650	2.0	65058.875	0.0
241.1128	25.02	-2.26	94397.200	3.5	135858.960	2.5	241.4000	25.01	-3.05	39808.140	3.0	83116.580	3.0
241.1170	23.02	-2.50	56922.500	2.5	98383.530	2.5	241.4014	28.02	-2.41	97841.430	2.0	81220.580	3.0
241.1173	26.01	-2.78	21812.040	1.5	63273.030	2.5	241.4040	74.00	-0.54	3306.958	0.0	139253.600	2.0
241.1181	26.02	-2.98	138264.470	6.0	179725.310	6.0	241.4066	27.01	-0.06	4560.800	3.0	44731.292	0.0
241.1184	17.02	-1.56	202367.600	3.5	243828.400	2.5	241.4098	26.01	-1.69	21251.550	6.5	45972.100	3.0
241.1195	24.02	-4.32	111854.000	5.0	153314.600	5.0	241.4100	76.00	-0.34	8630.355	0.0	62662.300	5.5
241.1274	25.01	-3.31	66643.010	4.0	108102.250	3.0	241.4116	26.02	-4.52	144968.500	4.0	50053.660	0.0
241.1339	26.01	-6.95	20516.980	2.5	61975.110	1.5	241.4120	25.02	-4.75	135858.960	2.5	186378.940	4.0
241.1369	22.00	-1.11	0.000	2.0	41457.620	3.0	241.4123	28.01	-2.54	39826.570	1.0	177269.340	1.5
241.1417	25.00	-0.91	25281.040	2.5	66737.820	3.5	241.4133	26.02	-3.21	142047.000	4.0	81236.890	1.0
241.1441	25.01	-4.57	27588.230	3.0	69044.610	2.0	241.4160	26.02	-4.67	142047.000	4.0	183456.690	3.0
241.1474	24.02	-4.24	111643.300	4.0	153099.100	4.0	241.4162	26.02	-2.37	141002.990	4.0	182412.650	4.0
241.1487	25.01	-6.28	27589.030	2.0	69044.610	2.0	241.4167	29.01	-2.11	73101.870	1.0	114511.440	1.0
241.1501	9.01	-2.38	236960.830	1.0	278416.170	0.0	241.4193	24.00	-4.54	20520.920	3.0	61930.050	3.0
241.1539	17.01	-4.68	131768.000	2.0	173222.700	3.0	241.4198	26.01	0.26	54870.620	2.5	96279.650	2.5
241.1540	74.01	0.78	17341.367	0.0	58808.645	0.0	241.4198	24.00	-6.97	0.000	3.0	41409.030	2.0
241.1561	26.00	-2.78	6928.266	5.0	48382.585	5.0	241.4200	25.03	-2.36	131462.500	5.0	172871.500	5.0
241.1565	27.00	-4.55	1809.330	1.5	43263.570	1.5	241.4221	18.01	-1.76	158730.210	2.5	200138.850	3.5
241.1577	25.01	-4.06	29869.110	2.0	71323.150	2.0	241.4257	25.02	-3.66	135861.320	1.5	177269.340	1.5
241.1579	22.00	-1.05	170.132	3.0	41624.130	4.0	241.4305	25.01	-2.03	39813.380	2.0	81220.580	3.0
241.1619	27.00	0.73	816.000	3.5	42269.320	4.5	241.4306	9.01	-1.74	236960.830	1.0	278368.010	2.0
241.1651	26.02	-3.38	137763.700	5.0	179216.470	6.0	241.4320	26.00	-2.23	7728.058	3.0	49135.003	3.0
241.1662	26.01	0.39	54904.500	3.5	96357.070	3.5	241.4320	73.00	-0.10	9194.957	0.0	50614.487	0.0
241.1663	24.00	-4.73	20523.940	5.0	61976.500	4.0	241.4330	28.01	-1.46	71770.830	2.5	113177.610	3.5
241.1673	25.00	-2.65	25285.430	4.5	66737.820	3.5	241.4354	24.00	-3.55	20523.690	4.0	61930.050	3.0
241.1717	25.01	-3.07	30795.750	4.0	72247.380	3.0	241.4380	26.02	-3.06	141002.990	4.0	182408.910	3.0
241.1725	27.02	-4.71	126998.100	4.5	168449.600	3.5	241.4457	27.00	0.39	1406.840	2.5	42811.440	3.5
241.1730	82.00	-0.92	10566.135	0.0	52030.146	0.0	241.4496	25.01	-1.12	29919.220	2.0	71323.150	2.0
241.1775	26.01	-2.75	62158.190	4.5	103608.820	4.5	241.4505	26.01	-2.39	22637.120	4.5	64040.960	3.5
241.1789	25.02	-4.44	136935.600	5.5	178386.000	5.5	241.4520	76.00	-0.48	2661.698	0.0	44077.797	0.0
241.1807	25.00	-2.81	25287.740	3.5	66737.820	3.5	241.4566	25.01	-2.49	44899.820	3.0	86302.550	3.0
241.1824	23.03	-3.68	223033.000	3.0	264482.800	2.0	241.4590	75.00	-0.23	57062.458	0.0	57062.458	0.0
241.1968	26.00	-2.53	7985.783	2.0	49433.108	2.0	241.4702	23.01	-6.33	13741.610	3.0	55142.010	3.0
241.2013	26.01	-0.36	43238.610	2.5	84685.160	3.5	241.4830	56.00	-3.52	0.000	0.0	41410.783	0.0
241.2074	29.02	-2.04	85446.400	1.5	126891.900	2.5	241.4867	29.01	-4.01	88362.030	2.0	129759.600	1.0
241.2119	25.01	-3.75	44745.460	2.0	86190.180	2.0	241.5028	25.01	-2.86	29869.110	2.0	71263.920	1.0
241.2124	18.01	-2.61	163506.450	3.5	204951.090	3.5	241.5066	26.01	-0.39	23031.300	1.5	64425.460	2.5
241.2168	26.00	-3.41	12560.933	3.0	54004.820	3.0	241.5069	28.01	-1.61	68281.620	5.5	109675.720	5.5
241.2169	26.02	-4.03	137763.700	5.0	179207.570	5.0	241.5071	22.00	-5.04	386.874	4.0	41780.950	4.0
241.2206	24.00	-3.88	7927.470	2.0	49370.700	3.0	241.5107	26.02	-2.30	76956.790	3.0	118350.240	4.0
241.2229	26.02	-4.99	138187.930	3.0	179630.770	4.0	241.5123	23.02	-0.82	56669.050	1.5	98062.220	1.5
241.2250	25.01	-2.98	48317.850	4.0	89760.330	5.0	241.5163	17.01	-3.81	145468.500	1.0	186881.000	2.0
241.2267	28.01	-2.58	10115.660	2.5	51557.850	3.5	241.5200	23.02	-2.98	99804.570	2.5	141196.430	2.5
241.2294	26.02	-3.73	141002.990	4.0	182444.700	3.0	241.5210	73.01	0.91	6775.232	0.0	48179.499	0.0
241.2342	29.02	-1.73	80422.800	5.5	121863.700	1.5	241.5228	26.01	-2.05	42334.860	2.5	83726.240	3.5
241.2451	25.00	-2.48	23549.200	2.5	64988.220	3.5	241.5247	24.01	-0.47	6			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
241.5944	27.00	-2.33	5075.830	1.5	46454.950	1.5	241.8628	26.02	-3.88	88923.070	6.0	130256.270	5.0
241.5960	72.01	-1.19	11856.655	0.0	53248.069	0.0	241.8663	27.02	-3.85	130407.800	2.5	171740.400	1.5
241.6032	27.01	.34	22414.500	3.0	63792.100	4.0	241.8663	27.02	-3.85	130407.800	2.5	171740.400	1.5
241.6038	9.02	-1.11	348702.860	.5	390080.300	1.5	241.8690	41.01	1.02	10485.478	0.0	51830.173	0.0
241.6050	26.01	-3.19	31811.870	2.5	73189.160	1.5	241.8697	18.01	-2.14	149179.170	3.5	190511.190	2.5
241.6054	26.01	-3.45	54902.420	1.5	96279.650	2.5	241.8700	31.00	-1.11	806.575	0.0	42151.099	0.0
241.6075	26.02	-3.33	141002.990	4.0	182379.860	5.0	241.8721	26.01	-1.34	31811.870	2.5	73143.480	3.5
241.6132	26.02	-4.10	147635.950	3.0	189011.840	4.0	241.8727	30.02	.95	216464.500	4.0	257796.000	5.0
241.6135	28.01	.20	14995.570	2.5	56371.410	3.5	241.8727	25.01	-4.28	30679.240	5.0	72010.750	4.0
241.6138	17.01	-3.75	145468.500	1.0	186844.300	1.0	241.8740	23.00	-2.59	323.420	3.5	41654.700	2.5
241.6175	26.01	-.96	54904.500	3.5	96279.650	2.5	241.8756	8.02	-2.81	401379.000	2.0	442710.600	3.0
241.6208	27.01	.41	27469.200	5.0	68843.800	4.0	241.8780	26.00	-2.67	12560.933	3.0	53891.540	3.0
241.6230	74.00	-.96	6129.972	0.0	47516.761	0.0	241.8816	18.02	.73	226503.220	3.0	267833.200	4.0
241.6237	26.00	-4.79	12968.552	2.0	54342.640	2.0	241.8892	28.01	-2.61	52758.450	2.5	94067.140	1.5
241.6246	9.02	-3.75	442147.190	2.5	483521.140	3.5	241.8926	25.02	-.55	91948.300	3.5	133276.400	4.5
241.6253	7.01	-2.99	168892.210	1.0	210266.040	2.0	241.9010	42.01	.33	23793.968	0.0	65133.194	0.0
241.6269	24.01	-1.77	49351.960	2.5	90725.500	3.5	241.9064	26.00	-2.94	7376.762	4.0	48702.518	4.0
241.6301	11.02	.32	399179.400	2.5	440552.400	3.5	241.9145	25.01	-1.51	48435.960	6.0	89760.330	5.0
241.6311	28.01	-1.29	58705.950	1.5	100078.780	1.5	241.9176	18.01	-3.92	159706.460	.5	201030.300	.5
241.6358	25.01	-2.26	29951.120	1.0	71323.150	2.0	241.9210	71.01	-.66	37899.692	0.0	79325.500	0.0
241.6385	24.00	-8.04	8095.210	3.0	49466.770	2.0	241.9302	26.02	-4.62	158562.700	4.0	199684.390	5.0
241.6400	24.01	-.37	35707.660	5.5	77078.960	5.5	241.9309	28.00	-.48	1332.153	3.0	42653.723	2.0
241.6410	25.00	-3.07	23549.200	2.5	64920.330	3.5	241.9337	25.01	-2.70	39826.570	1.0	81147.650	2.0
241.6423	25.02	-3.97	138312.700	4.5	179683.610	4.5	241.9337	26.01	-3.03	20830.520	2.5	62151.610	2.5
241.6430	28.01	-4.27	79923.880	4.5	121294.670	4.5	241.9340	74.01	.75	19952.407	0.0	61255.994	0.0
241.6430	17.02	-.61	204021.600	.5	245392.400	1.5	241.9346	25.01	-2.51	44315.170	6.0	85636.100	6.0
241.6440	75.00	-.43	11534.025	0.0	52917.217	0.0	241.9347	27.00	-4.29	1809.330	1.5	43130.240	.5
241.6457	26.01	.18	44753.820	3.5	86124.140	4.5	241.9353	25.02	-3.82	138362.800	3.5	179683.610	4.5
241.6469	18.01	-2.51	157233.930	3.5	198604.060	4.5	241.9388	25.01	-4.23	65656.680	4.0	106885.900	4.0
241.6484	28.01	-4.38	91800.050	4.5	133169.920	4.5	241.9388	18.02	-1.29	225402.590	3.0	266722.800	2.0
241.6485	10.01	-4.27	280700.770	3.5	322070.630	2.5	241.9400	75.00	-.10	15647.559	0.0	56980.121	0.0
241.6499	10.01	-1.74	280700.770	3.5	322070.380	3.5	241.9410	40.01	-.42	4194.191	0.0	45526.582	0.0
241.6541	23.03	.14	223033.000	3.0	264401.500	4.0	241.9421	18.01	-3.24	173347.830	1.5	214667.480	2.5
241.6552	28.02	-4.15	76237.800	3.0	117606.500	4.0	241.9423	26.02	-3.92	147635.950	3.0	188955.560	3.0
241.6593	14.01	-1.61	114265.700	1.5	155633.700	2.5	241.9430	24.01	-2.20	25035.640	.5	66355.130	1.5
241.6621	26.02	-2.65	82382.870	3.0	123750.390	3.0	241.9464	26.01	-3.27	38858.960	2.5	80177.870	1.5
241.6633	28.01	-4.22	79823.030	3.5	121190.340	4.5	241.9481	8.02	-3.97	329581.980	1.0	370900.600	2.0
241.6657	28.02	-2.40	78303.100	2.0	119670.000	2.0	241.9567	26.01	-2.86	43620.980	1.5	84938.130	1.5
241.6711	26.01	-1.24	30764.460	3.5	72130.440	4.5	241.9587	25.02	-2.54	97023.800	3.5	138340.620	2.5
241.6713	25.02	-2.56	97239.860	6.5	138605.800	6.5	241.9618	25.01	-1.38	44745.460	2.0	86061.750	3.0
241.6755	23.00	-.21	553.020	4.5	41918.240	5.5	241.9658	17.02	-.86	201765.100	2.5	243080.700	1.5
241.6809	24.02	-3.98	117099.300	4.0	158463.600	3.0	241.9672	26.02	-3.35	138264.470	6.0	179579.830	5.0
241.6857	26.01	-1.92	21581.640	4.5	62945.120	3.5	241.9734	26.02	-2.73	82382.870	3.0	123697.180	2.0
241.6885	27.01	-.42	11321.500	2.0	52684.500	1.0	241.9734	27.01	-.18	41313.900	3.0	82628.200	3.0
241.6887	9.02	-2.98	442147.190	2.5	483510.170	2.5	241.9750	45.00	-.98	3387.616	0.0	44714.199	0.0
241.6890	73.01	.55	2581.041	0.0	43956.528	0.0	241.9803	24.00	-4.35	8307.570	4.0	49620.690	4.0
241.6944	25.02	-2.73	97000.800	4.5	138362.800	3.5	241.9810	75.00	-.61	0.000	0.0	41325.559	0.0
241.6983	25.02	-2.42	90936.220	1.5	132297.550	2.5	241.9822	25.01	-.85	29951.120	1.0	71263.920	1.0
241.6990	41.01	1.07	10808.108	0.0	52181.883	0.0	241.9828	25.02	-2.46	94397.200	3.5	135709.900	2.5
241.7003	18.01	-3.90	157233.930	3.5	198594.920	3.5	241.9831	27.00	-3.57	4690.180	2.5	46002.830	2.5
241.7090	27.01	-1.91	27484.300	3.0	68843.800	4.0	241.9840	26.02	-3.65	141539.550	6.0	182852.050	7.0
241.7135	24.00	-4.42	8095.210	3.0	49453.940	4.0	241.9857	29.02	-3.14	80551.500	2.5	121863.700	1.5
241.7142	24.02	-3.08	112371.200	2.0	153729.800	1.0	241.9867	24.01	-1.38	25043.100	1.5	66355.130	1.5
241.7200	14.01	-1.01	114265.700	1.5	155623.300	1.5	241.9873	10.01	-4.23	281025.940	2.5	322337.880	2.5
241.7210	18.01	-3.33	158167.710	1.5	199525.150	1.5	241.9875	25.02	-2.03	97000.800	4.5	138312.700	4.5
241.7313	10.01	-3.19	280700.770	3.5	322056.440	3.5	241.9876	26.00	-2.18	7985.783	2.0	49297.660	1.0
241.7316	24.01	-2.90	39877.280	3.5	81232.910	2.5	241.9890	26.01	-1.59	22637.190	4.5	63948.840	4.5
241.7330	73.01	-.42	0.000	0.0	41367.956	0.0	241.9898	9.02	-4.58	390120.770	.5	431432.270	1.5
241.7337	10.01	-.79	280700.770	3.5	322056.030	4.5	241.9902	10.01	-2.93	281025.940	2.5	322337.880	3.5
241.7358	23.00	-.48	137.380	2.5	41492.290	3.5	241.9928	27.02	-3.41	131883.900	2.5	173194.900	2.5
241.7370	32.00	.43	7017.204	0.0	48384.475	0.0	241.9944	23.02	-3.77	99440.100	2.5	140750.820	2.5
241.7383	9.02	-1.65	390077.800	2.5	431432.270	1.5	241.9984	24.00	-3.94	8307.570	4.0	49617.610	5.0
241.7491	26.00	-4.30	11976.239	4.0	53328.870	4.0	241.9986	24.01	-4.65	35569.020	2.5	76879.030	3.5
241.7497	25.00	-2.02	23796.670	3.5	64649.200	3.5	241.9997	26.01	-.20	45289.840	1.5	86599.660	2.5
241.7507	26.01	-5.32	20805.830	4.5	62158.190	4.5	242.0020	76.01	1.51	13066.518	0.0	54388.491	0.0
241.7519	26.00	-5.75	12560.933	3.0	53913.090	2.0	242.0068	23.01	-2.47	11295.510	0.0	52604.110	1.0
241.7529	9.02	-2.43	390080.300	1.5	431432.270	1.5	242.0098	24.01	-1.11	25047.040	2.5	66355.130	1.5
241.7553	23.02	-.26	56160.420	2.5	97512.000	1.5	242.0109	26.02	-2.34	83646.980	1.0	124954.880	1.0
241.7606	10.01	-3.05	280700.770	3.5	322051.430	2.5	242.0112	25.00	-1.13	25265.740	5.5	66573.600	5.5
241.7645	25.03	-3.53	152858.200	3.0	194208.200	3.0	242.0132	23.00	-.82	553.020	4.5	41860.540	4.5
241.7651	27.01	.12	4028.900	4.0	45378.800	4.0	242.0140	23.01	-3.99	26839.820	3.0	68147.200	4.0
241.7660	75.00	-.22	16212.162	0.0	57574.471	0.0	242.0156	25.03	-2.92	131170.100	4.0	172477.200	4.0
241.7690	72.01	-.20	2984.328	0.0	44346.124	0.0	242.0180	42.01	.40	24035.941	0.0	65355.182	0.0
241.7741	10.01	-1.79	280989.530	1.5	322337.880	2.5	242.0180	45.01	.71	33634.186	0.0	74953.427	0.0
241.7784	7.01	-3.47	168892.210	1.0	210239.830	1.0	242.0192	14.01	-.90	114327.210	2.5	155633.700	2.5
241.7815	26.01	-.59	22939.350	2.5	64286.440	3.5	242.0200	74.00	-.39	13711.778	0.0	55030.677	0.0
241.7868	26.01	.28	26170.190	5.5	67516.370	5.5	242.0228	14.00	-3.42	15394.370	0.0	56700.250	1.0
241.7909	25.00	-1.69	25285.430	4.5	66630.920	4.5	242.0244	15.01	-2.17	87805.000	2.0	129110.600	1.0
241.795													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
242.0901	27.02	-1.59	132314.900	.5	173609.300	1.5
242.0960	26.01	-3.83	62689.960	2.5	103983.350	3.5
242.0980	45.01	.72	20487.010	0.0	61792.597	0.0
242.1006	11.02	-9.96	399179.400	2.5	440472.000	2.5
242.1010	74.01	.53	13308.491	0.0	54613.566	0.0
242.1030	73.00	-4.58	3871.561	0.0	45176.295	0.0
242.1062	9.02	-4.59	440069.510	1.5	481361.170	1.5
242.1068	23.00	-2.10	137.380	2.5	41428.930	2.5
242.1077	26.00	-5.75	12560.933	3.0	53852.330	4.0
242.1088	26.02	-4.44	141539.550	6.0	182830.760	6.0
242.1137	25.01	-2.27	44899.820	3.0	86190.180	2.0
242.1147	8.02	-8.86	398137.400	3.0	439427.600	3.0
242.1150	76.00	-2.34	12663.231	0.0	53965.918	0.0
242.1174	26.02	-2.70	76956.790	3.0	118246.520	3.0
242.1200	11.02	.16	399182.700	1.5	440472.000	2.5
242.1218	23.01	-2.97	11514.760	1.0	52803.750	1.0
242.1221	25.01	-1.83	49889.860	3.0	91178.800	4.0
242.1223	25.02	-3.02	97023.800	3.5	138312.700	4.5
242.1223	28.00	-1.20	1332.153	3.0	42621.048	3.0
242.1231	25.00	-1.17	23296.670	3.5	64585.440	4.5
242.1266	25.00	-2.80	25285.430	4.5	66573.600	5.5
242.1270	27.02	-3.76	83938.900	3.5	125227.000	3.5
242.1306	22.00	-2.10	170.132	3.0	41457.620	3.0
242.1317	23.03	.20	223304.600	4.0	264591.900	5.0
242.1331	26.00	-2.95	19390.165	6.0	60677.230	5.0
242.1360	70.01	-9.91	32182.351	0.0	73481.456	0.0
242.1374	26.01	-4.28	62322.500	3.5	103608.820	4.5
242.1379	26.02	-2.80	82410.940	2.0	123697.180	2.0
242.1380	75.00	-1.13	15082.956	0.0	56381.720	0.0
242.1480	26.02	-4.31	158417.310	2.0	199701.820	3.0
242.1509	26.02	-1.66	84159.550	4.0	125443.580	4.0
242.1581	27.02	-3.30	130183.800	3.5	171466.600	2.5
242.1581	27.02	-3.30	130183.800	3.5	171466.600	2.5
242.1581	24.00	-1.63	24897.550	4.0	66180.340	5.0
242.1602	10.01	-2.18	280768.520	.5	322050.950	1.5
242.1686	27.00	-2.35	4690.180	2.5	45971.190	3.5
242.1700	50.00	.89	8549.697	0.0	49843.003	0.0
242.1712	14.01	-1.59	114414.640	3.5	155695.200	4.5
242.1727	15.01	-3.45	88894.000	1.0	130174.300	2.0
242.1730	75.00	.08	14518.354	0.0	55811.149	0.0
242.1739	25.02	-2.61	134638.390	1.5	175918.500	.5
242.1810	18.02	-6.61	226503.220	3.0	267782.100	3.0
242.1815	27.02	-2.39	131098.200	4.5	172377.000	3.5
242.1818	25.01	-4.93	66893.790	1.0	108172.540	1.0
242.1839	26.00	-5.80	8154.713	1.0	49433.108	2.0
242.1850	73.01	1.21	14518.354	0.0	55809.103	0.0
242.1882	26.00	-4.01	12560.933	3.0	53838.600	3.0
242.1884	24.01	-2.49	32836.840	3.5	74114.480	3.5
242.1901	26.01	-2.18	20805.830	4.5	62083.170	4.5
242.1911	26.01	-2.09	22810.330	3.5	64087.500	2.5
242.1980	29.01	-4.11	72724.000	2.0	114000.000	3.0
242.1980	27.01	.54	40694.900	4.0	81970.900	5.0
242.1983	23.00	-.39	323.420	3.5	41599.360	4.5
242.1986	25.02	-4.71	137282.400	2.5	178558.300	1.5
242.2010	24.00	-5.33	8095.210	3.0	49370.700	3.0
242.2041	23.01	-6.04	22273.540	1.0	63548.500	1.0
242.2091	18.01	-6.68	173393.380	2.5	214667.480	2.5
242.2097	25.00	-2.19	23549.200	2.5	64823.210	2.5
242.2130	51.00	-5.59	18309.257	0.0	59595.233	0.0
242.2148	10.01	-1.19	280797.260	2.5	322070.380	3.5
242.2200	39.01	-6.02	3226.301	0.0	44511.083	0.0
242.2248	24.01	-2.13	35607.600	3.5	76879.030	3.5
242.2250	25.01	-4.34	66901.140	2.0	108172.540	1.0
242.2280	74.00	-.92	3306.958	0.0	44590.377	0.0
242.2372	25.01	-4.14	66901.140	2.0	108170.450	2.0
242.2386	13.02	-3.35	167612.750	2.5	208881.830	2.5
242.2386	13.02	-2.20	167612.750	2.5	208881.830	1.5
242.2418	24.01	-2.24	35610.500	4.5	76879.030	3.5
242.2422	13.02	-2.05	167613.370	3.5	208881.830	2.5
242.2426	17.02	-1.10	204124.000	1.5	245392.400	1.5
242.2434	9.02	-4.73	426558.910	1.5	467827.160	1.5
242.2446	26.02	-3.90	84369.920	2.0	125637.980	3.0
242.2598	24.00	-5.18	8307.570	4.0	49573.030	4.0
242.2660	74.00	-1.08	6129.972	0.0	47406.916	0.0
242.2688	26.01	-.08	31387.980	2.5	72651.910	3.5
242.2735	18.01	-3.49	147503.020	1.5	188766.150	2.5
242.2737	30.02	-.75	219360.000	4.0	260623.100	4.0
242.2760	9.02	-.82	348817.600	1.5	390080.300	1.5
242.2777	14.03	-2.07	291497.500	1.5	332759.920	1.5
242.2783	14.03	-1.12	291497.600	2.5	332759.920	1.5
242.2834	8.02	-2.46	324462.460	2.0	365723.900	1.0
242.2907	24.00	-1.75	24833.860	3.0	66094.060	4.0
242.2907	9.02	-.94	348817.600	1.5	390077.800	2.5
242.2918	24.01	-3.23	32854.460	4.5	74114.480	3.5
242.2923	26.01	-1.14	37227.320	.5	78487.250	1.5
242.2934	26.01	-2.35	20805.830	4.5	62065.570	3.5
242.2949	16.02	-1.13	170067.310	2.0	211326.800	1.0
242.2955	24.01	-2.40	32855.090	2.5	74114.480	3.5
242.2967	10.01	-2.33	280797.260	2.5	322056.440	3.5
242.2995	27.02	-2.78	132592.400	1.5	173851.100	.5
242.3036	23.01	-2.49	8640.210	2.0	49898.220	2.0
242.3070	76.01	1.48	7823.779	0.0	49093.738	0.0
242.3078	28.02	-2.29	97996.300	3.0	139253.600	2.0
242.3090	26.00	-3.56	7985.783	2.0	49242.872	3.0
242.3099	26.02	-2.95	83646.980	1.0	124903.920	2.0
242.3101	26.00	-2.26	7985.783	2.0	49242.872	3.0
242.3102	25.00	-1.92	25265.740	5.5	66522.620	4.5
242.3106	28.01	-4.33	95332.530	2.5	136589.350	3.5
242.3115	28.01	-4.14	79923.880	4.5	121180.550	5.5
242.3146	26.00	-4.95	12968.552	2.0	54224.680	1.0
242.3154	24.02	-4.09	117186.900	5.0	158442.900	4.0
242.3198	23.02	-1.41	56256.750	1.5	97512.000	1.5
242.3199	23.02	-2.10	99941.200	3.5	141196.430	2.5
242.3205	26.01	-1.15	91364.470	1.5	72619.610	2.5
242.3230	28.01	-4.53	93528.440	3.5	134783.140	2.5
242.3261	10.01	-1.90	280797.260	2.5	322051.430	2.5
242.3283	27.00	-3.86	5075.830	1.5	46329.630	2.5
242.3290	10.01	-3.19	280797.260	2.5	322050.950	1.5
242.3320	25.01	-1.07	48317.850	4.0	89571.030	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
242.3322	28.00	-1.68	1332.153	3.0	42585.296	4.0
242.3324	30.02	.89	219360.000	4.0	260613.100	5.0
242.3383	23.00	-2.45	137.380	2.5	41389.490	1.5
242.3405	18.01	-2.72	158730.210	2.5	199981.940	1.5
242.3421	14.01	-.73	114414.640	3.5	155666.100	3.5
242.3448	10.01	-2.34	280173.010	4.5	321424.010	4.5
242.3450	10.01	-.61	280173.010	4.5	321423.970	5.5
242.3480	73.01	.34	3145.643	0.0	44408.620	0.0
242.3500	75.00	-.60	14921.641	0.0	56184.278	0.0
242.3504	25.02	-.67	17395.270	.5	112645.310	.5
242.3515	26.01	-2.36	43620.980	1.5	84870.840	2.5
242.3521	18.02	.88	226646.060	4.0	267895.820	5.0
242.3530	27.02	-2.45	131883.900	2.5	173133.500	1.5
242.3553	18.02	.79	204797.370	3.0	246046.570	4.0
242.3571	38.01	-1.40	23715.190	0.0	64976.618	0.0
242.3606	25.02	-3.54	137137.690	1.5	178386.000	.5
242.3618	27.01	-.83	5204.500	1.0	46452.600	2.0
242.3643	28.01	-1.93	72375.420	1.5	113623.100	.5
242.3653	28.00	-1.54	2216.519	2.0	43464.019	1.0
242.3690	26.01	-3.67	20340.360	5.5	61587.240	5.5
242.3698	24.00	-6.39	7593.160	2.0	48839.900	1.0
242.3720	25.02	-.36	71831.980	2.5	113078.340	1.5
242.3720	14.03	-1.37	291497.500	1.5	332743.870	.5
242.3728	25.02	-1.38	94697.850	3.5	135944.080	4.5
242.3729	25.01	-2.40	39808.140	3.0	81054.350	2.0
242.3742	27.01	-.61	24411.500	0.0	65657.500	1.0
242.3759	24.02	-4.20	116391.600	2.0	157637.300	3.0
242.3824	27.01	-.85	24267.800	1.0	65512.400	0.0
242.3842	25.02	-1.65	97000.800	4.5	138245.090	5.5
242.3879	25.01	-1.44	44745.460	2.0	85989.120	2.0
242.3890	25.01	-1.30	39808.140	3.0	81051.620	3.0
242.3899	25.01	-4.25	66929.220	2.0	108172.540	1.0
242.3912	26.01	-1.08	31811.870	2.5	73054.970	2.5
242.3958	23.02	-3.41	99508.500	1.5	140750.820	2.5
242.3964	9.02	-3.69	442278.930	2.5	483521.140	3.5
242.3970	26.02	-4.23	158562.700	4.0	199804.810	4.0
242.4000	42.01	.37	23713.311	0.0	64967.436	0.0
242.4013	26.00	-3.89	7985.783	2.0	49227.160	3.0
242.4020	76.01	1.41	13147.176	0.0	54400.961	0.0
242.4022	25.01	-3.20	66929.220	2.0	108170.450	2.0
242.4026	28.00	-.81	1713.080	1.0	42954.234	2.0
242.4037	25.01	-1.76	39813.380	2.0	81054.350	2.0
242.4137	18.02	.21	204797.370	3.0	246036.640	3.0
242.4142	26.01	.41	22637.190	4.5	63876.380	5.5
242.4145	24.01	-2.45	49351.960	2.5	90591.100	2.5
242.4152	25.02	-.440	133736.640	5.5	174975.650	5.5
242.4198	25.01	-2.36	39813.380	2.0	81051.620	3.0
242.4220	74.00	.21	4758.794	0.0	46009.176	0.0
242.4225	25.01	-1.48	44521.520	4.0	85759.300	4.0
242.4241	25.02	-2.77	135732.500	4.5	176970.010	5.5
242.4255	22.00	.10	386.874	4.0	41624.130	4.0
242.4259	25.00	-1.03	25285.430	.5	66522.620	4.5
242.4265	15.04	.34	304161.300	.5	345398.400	1.5
242.4278	25.02	-2.35	94707.200	4.5	135944.080	4.5
242.4296	26.01	-3.27	39109.340	.5	80345.910	.5
242.4305	18.02	-.64	204797.370	3.0	246033.790	2.0
242.4320	77.00	-.22	10485.478	0.0	51734.158	0.0
242.4363	10.01	-2.61	280173.010	4.5	321408.440	3.5
242.4385	26.01	-1.17	20830.520	2.5	62065.570	3.5
242.4395	25.00	-4.68	25287.740	3.5	66522.620	4.5
242.4412	8.02	-1.27	401475.400	3.0	442710.000	3.0
242.4433	29.01	-.81	68850.060	0.0	110084.290	1.0
242.4492	26.01	-3.05	21711.890	3.5	62945.120	3.5
242.4509	10.01	-3.27	280173.010	4.5	321405.950	3.5
242.4520	26.01	-4.08	44446.890	3.5	85679.640	2.5
242.4551	10.01	-1.48	280173.010	4.5	321405.250	4.5
242.4553	26.02	-4.92	105929.160	3.0	147161.360	4.0
242.4560	76.00	-.57	0.000	0.0	41244.597	0.0
242.4570	26.01	-3.78	21430.390	5.5	62662.300	5.5
242.4586	26.01	-.03	31387.980	2.5	72619.610	2.5
242.4609	9.02	-2.19	442278.930	2.5	483510.170	2.5
242.4628	28.01	-4.39	77332.470	2.5	118563.390	3.5
242.4645	26.01	-1.34	22810.330	3.5	64040.960	3.5
242.4653	24.00	-2.85	8307.570	4.0	49538.060	5.0
242.4659	18.01	-1.51	159393.310	1.5	200623.700	.5
242.4660	77.00	-.27	9759.560	0.0	51002.456	0.0
242.4666	26.01	-1.82	44232.510	4.5	85462.780	3.5
242.4672	26.02	-4.80	145038.610	3.0	186268.790	2.0
242.4688	27.02	-3.88	38773.400	1.5	125003.300	2.5
242.4717	18.01	-2.53	158730.210	2.5	199959.620	2.5
242.4741	25.02	-2.76	135041.250	1.5	176270.250	2.5
242.4747	25.01	-2.39	44138.960	1.0	85367.850	2.0
242.4754	23.02	-1.92	44646.960	4.5	85875.740	3.5
242.4796	25.01	-2.48	44315.170	6.0	85543.230	5.0
242.4858	23.01	-3.27	13490.840	2.0	54717.850	1.0
242.4890	77.00	-.43	5726.684	0.0	46965.668	0.0
242.4902	28.01	-2.84	73893.730	1.5	115120.000	2.5
242.4915	9.02	-3.56	390834.600	2.5	432060.640	1.5
242.4932	27.00	.59	0.000	4.5	41225.760	.5
242.4960	26.01	-2.58	38660.040	3.5	79885.320	2.5
242.4970	76.00	-.10	0.000	0.0	41237.624	0.0
242.4974	22.01	-.445	983.800	2.5	42208.840	2.5
242.4989	23.01	-6.68	13490.840	2.0	54715.630	2.0
242.4989	24.00	-6.90	0.000	3.0	41224.780	4.0
242.4990	77.00	-.13	6291.287	0.0	47528.570	0.0
242.5004	25.02	-2.88	135041.250	1.5	176265.780	1.5
242.5045	26.01	-2.57	43620.980	1.5	84844.810	2.5
242.5141	25.03	-4.74	152986.000	2.0	194208.200	3.0
242.5173	38.01	-3.71	14836.240	0.0	56070.412	0.0
242.5204	24.01	-1.57	25035.640	.5	66256.770	.5
242.5206	27.02	-2.45	131581.600	3.5	172802.700	2.5
242.5288	9.03	-1.06	542266.300	1.0	583486.000	1.0
242.5326	14.01	-1.48	114414.640	3.5	155633.700	2.5
242.5350	26.01	-6.45	20830.520	2.5	62049.170	2.5
242.5358	25.02	-4.70	135246.270	2.5	176464.780	3.5
242.5361	26.01	-1.32	26055.400	2.5	67273.860	1.5
242.5402	25.02	-4.72	137599.200	3.5	178816.960	2.5
242.5410	3.00	-2.59	0.000	0.0	41230.143	0.0
242.5461	24.00	-3.46	7810.820	1.0	49027.580	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
242.5473	25.02	-4.45	137935.530	4.5	179152.090	3.5	242.8423	10.01	-2.32	281171.380	2.5	322337.880	2.5
242.5522	23.00	-2.64	323.420	3.5	41539.140	4.5	242.8436	26.00	-4.55	12968.552	2.0	54134.820	2.0
242.5526	24.00	-3.48	8095.210	3.0	49310.860	3.0	242.8452	14.01	-1.55	114529.200	4.5	155695.200	4.5
242.5565	25.01	-3.00	30795.750	4.0	72010.750	4.0	242.8452	10.01	-1.02	281171.380	2.5	322337.380	3.5
242.5594	27.00	-1.94	4690.180	2.5	45904.680	1.5	242.8508	10.01	-3.17	280268.960	2.5	321434.020	1.5
242.5595	13.01	-2.30	106918.200	1.0	148132.700	2.0	242.8535	26.01	-3.40	39013.280	1.5	80177.870	1.5
242.5602	28.01	-2.84	73893.730	1.5	15108.090	2.5	242.8580	75.00	-1.31	0.000	0.0	41176.325	0.0
242.5635	38.01	-4.52	14555.900	0.0	55762.218	0.0	242.8585	25.00	-1.46	23549.200	2.5	64712.940	2.5
242.5639	25.01	-2.19	53017.160	1.0	94230.900	2.0	242.8595	26.01	-1.58	26352.800	4.5	67516.370	5.5
242.5643	24.01	-1.63	25043.100	1.5	66256.770	.5	242.8630	82.00	-1.30	21293.585	0.0	62469.063	0.0
242.5659	27.02	-4.51	126998.100	4.5	168211.500	4.5	242.8655	25.02	-3.48	94707.200	4.5	135869.760	3.5
242.5660	77.00	-1.24	6291.287	0.0	47517.180	0.0	242.8692	25.01	-2.31	44899.820	3.0	86061.750	3.0
242.5677	25.01	-2.62	44521.520	4.0	85734.620	3.0	242.8695	26.02	-3.37	138054.590	5.0	179216.470	6.0
242.5681	26.01	-1.61	25787.600	1.5	67000.630	2.5	242.8707	10.01	-1.73	280262.330	3.5	321424.010	4.5
242.5732	24.00	-4.54	8307.570	4.0	49519.720	3.0	242.8716	25.01	-4.27	67008.930	3.0	108170.450	2.0
242.5796	28.01	-3.98	78955.450	1.5	120166.520	1.5	242.8741	25.02	-3.43	94697.850	3.5	135858.960	2.5
242.5812	25.02	-4.49	138128.800	1.5	179339.590	2.5	242.8750	72.00	-1.14	2339.068	0.0	43512.511	0.0
242.5910	73.01	1.05	12340.601	0.0	53562.246	0.0	242.8754	22.01	-4.68	907.960	1.5	42068.850	1.5
242.5911	26.01	-2.50	20516.980	2.5	61726.090	3.5	242.8774	24.01	-3.73	49351.960	2.5	90512.500	1.5
242.5914	25.01	-2.94	29869.110	2.0	71078.180	1.0	242.8784	26.01	-1.38	25428.800	5.5	66589.170	4.5
242.5929	8.02	-1.28	398218.800	4.0	439427.600	3.0	242.8797	26.01	-1.25	31364.470	1.5	72524.620	1.5
242.5980	72.01	1.24	13389.148	0.0	54609.603	0.0	242.8798	26.02	-1.92	88694.670	5.0	129854.800	6.0
242.5980	74.00	1.22	13227.893	0.0	54448.288	0.0	242.8864	26.00	-3.36	19390.165	6.0	60549.180	5.0
242.6027	25.01	-3.06	44745.460	2.0	85952.600	3.0	242.8867	25.01	-4.31	29919.220	2.0	71078.180	1.0
242.6086	23.01	-3.97	13511.710	1.0	54717.850	1.0	242.8884	28.01	-2.40	67880.160	2.5	109038.840	1.5
242.6130	23.00	-2.62	553.020	4.5	41758.410	3.5	242.8903	10.01	-2.72	280262.330	3.5	321420.690	2.5
242.6147	24.02	-1.52	71166.100	2.0	112371.200	2.0	242.8905	29.01	-1.83	73353.120	2.0	114511.440	1.0
242.6147	24.02	-2.50	118598.200	3.0	159803.300	4.0	242.8973	26.01	-1.71	42401.330	1.5	83558.500	.5
242.6168	24.01	-4.38	49646.250	3.5	90851.000	4.5	242.8978	27.01	-2.78	27902.500	4.0	69059.590	3.0
242.6185	26.01	-1.63	31811.870	2.5	73016.330	3.5	242.8979	28.01	-3.14	75917.630	3.5	117074.700	3.5
242.6189	18.02	-1.36	240257.590	1.0	281461.970	2.0	242.8990	72.01	1.16	12017.970	0.0	53187.345	0.0
242.6190	76.00	-1.49	8630.355	0.0	49847.242	0.0	242.9000	25.02	-4.96	137660.240	3.5	178816.960	2.5
242.6217	23.01	-4.73	13511.710	1.0	54715.630	2.0	242.9010	26.02	-1.99	93392.450	3.0	134549.000	3.0
242.6218	30.02	-1.41	217073.800	2.0	258277.700	3.0	242.9032	26.01	-1.38	31368.450	.5	72524.620	1.5
242.6230	27.02	-3.79	83799.600	2.5	125003.300	2.5	242.9087	28.01	-2.21	29593.460	.5	70748.700	.5
242.6260	9.02	-1.04	349007.250	2.5	390210.430	3.5	242.9091	28.00	-3.16	3409.925	2.0	44565.100	3.0
242.6273	23.02	-4.73	99941.200	3.5	141144.170	4.5	242.9100	78.00	-1.71	10082.190	0.0	51249.701	0.0
242.6310	26.00	-1.38	12560.933	3.0	53763.280	3.0	242.9127	28.01	-4.90	92373.450	2.5	133528.020	3.5
242.6312	26.02	-3.33	82494.880	1.0	123697.180	2.0	242.9134	29.01	-3.92	88605.160	1.0	129759.600	1.0
242.6318	8.02	-1.76	398127.300	2.0	439329.500	2.0	242.9176	25.02	-1.93	91906.100	2.5	133059.840	3.5
242.6320	28.01	-3.80	92325.850	3.5	133528.020	3.5	242.9193	25.02	-2.22	135116.800	1.5	176270.250	2.5
242.6350	51.00	-1.49	16292.819	0.0	57506.988	0.0	242.9220	26.02	-4.10	138054.590	5.0	179207.570	5.0
242.6359	27.01	-3.43	22414.500	3.0	63616.000	2.0	242.9226	27.00	-1.56	816.000	3.5	41968.890	2.5
242.6382	25.01	-3.95	66901.140	2.0	108102.250	3.0	242.9230	25.00	-1.18	25265.740	5.5	66418.550	5.5
242.6427	26.01	-3.64	30764.460	3.5	71964.810	2.5	242.9245	10.02	-3.77	357930.000	2.0	399082.570	1.0
242.6544	22.00	-2.82	386.874	4.0	41585.240	3.0	242.9251	23.01	-3.23	20980.920	2.0	62133.390	3.0
242.6557	25.01	-1.37	49820.160	2.0	91018.300	3.0	242.9266	25.01	-2.46	44521.520	4.0	85673.720	4.0
242.6559	8.02	-1.35	398131.400	1.0	439329.500	2.0	242.9294	10.01	-1.82	280268.960	2.5	321420.690	2.5
242.6640	75.00	-1.33	16212.162	0.0	57421.406	0.0	242.9311	10.01	-3.25	280268.960	2.5	321420.410	1.5
242.6653	24.00	-1.22	24897.550	4.0	66094.060	4.0	242.9349	8.02	-1.98	398127.300	2.0	439278.100	1.0
242.6769	18.02	-1.60	242923.960	1.0	284118.510	1.0	242.9383	26.01	-1.64	21812.040	1.5	62962.260	1.5
242.6780	77.00	-1.04	5726.684	0.0	46933.551	0.0	242.9412	26.01	-1.91	22409.820	.5	63559.560	.5
242.6807	30.02	-1.39	219684.900	3.0	260878.800	3.0	242.9414	25.01	-2.20	52718.800	0.0	93868.500	1.0
242.6913	8.02	-1.55	398137.400	3.0	439329.500	5.0	242.9442	26.00	-2.60	7985.783	2.0	49135.003	3.0
242.7101	25.02	-1.05	135781.090	5.5	176970.010	5.5	242.9449	18.01	-4.63	158730.210	2.5	199879.320	3.5
242.7110	45.01	.70	18389.915	0.0	59591.179	0.0	242.9457	25.02	-4.23	135116.800	1.5	176265.780	1.5
242.7119	30.02	-1.97	216607.400	5.0	257796.000	5.0	242.9490	50.00	.50	3387.616	0.0	44548.518	0.0
242.7200	26.01	-1.97	20340.360	5.5	61527.590	6.5	242.9506	26.01	-1.56	22939.350	2.5	64087.500	2.5
242.7205	18.02	-1.65	226646.060	4.0	267833.200	4.0	242.9520	45.00	-1.30	3387.616	0.0	44548.010	0.0
242.7208	28.02	-1.52	78482.900	1.0	119670.000	2.0	242.9547	25.01	-2.39	48317.850	4.0	89465.300	4.0
242.7290	74.00	.08	15002.299	0.0	56200.508	0.0	242.9592	8.02	-1.87	398131.400	1.0	439278.100	1.0
242.7302	23.03	-3.67	215957.700	3.0	257143.200	2.0	242.9600	26.02	-4.33	97041.380	3.0	138187.930	3.0
242.7316	23.01	-3.01	11514.760	1.0	52700.030	2.0	242.9600	44.00	-1.15	8469.040	0.0	49628.979	0.0
242.7378	25.01	.07	38366.070	2.0	79550.280	3.0	242.9611	24.00	-3.71	8307.570	4.0	49453.940	4.0
242.7379	27.00	-3.83	5075.830	1.5	46260.020	1.5	242.9616	10.01	-4.60	280262.330	3.5	321408.620	2.5
242.7490	74.01	.31	3145.643	0.0	44340.457	0.0	242.9626	10.01	-1.72	280262.330	3.5	321408.440	3.5
242.7499	18.02	-1.27	240291.660	2.0	281473.820	3.0	242.9650	75.00	-1.28	16212.162	0.0	57370.354	0.0
242.7553	28.01	-3.85	92792.080	3.5	133973.330	2.5	242.9670	76.00	-1.54	10082.190	0.0	51240.043	0.0
242.7579	23.03	-2.09	217108.000	2.0	258288.800	1.0	242.9710	73.01	.25	0.000	0.0	41157.175	0.0
242.7610	77.00	-1.26	4032.876	0.0	45225.654	0.0	242.9716	26.01	-4.92	20830.520	2.5	61975.110	1.5
242.7640	73.00	-1.66	0.000	0.0	41192.269	0.0	242.9727	24.02	-1.49	71321.800	3.0	112466.200	3.0
242.7680	45.00	-1.64	2581.041	0.0	43772.631	0.0	242.9729	26.01	-2.09	31999.120	3.5	73143.480	3.5
242.7688	24.01	-1.99	34631.140	4.5	75810.100	4.5	242.9736	26.02	-2.36	142312.900	3.0	183457.150	4.0
242.7691	25.03	-3.03	152700.500	4.0	193879.400	5.0	242.9745	26.02	-1.82	77102.430	2.0	118246.520	3.0
242.7691	13.01	-2.59	106918.200	1.0	148097.100	0.0	242.9763	26.02	-3.31	142312.900	3.0	183456.690	3.0
242.7718	25.01	.29	38366.070	2.0	79544.510	2.0	242.9771	26.00	-3.11	12968.552	2.0	54112.203	2.0
242.7734	23.02	-1.85	44345.820	3.5	85524.000	2.5	242.9773	10.01	-2.13	280262.330	3.5	321405.950	3.5
242.7745	23.00	-1.82	323.420	3.5	41501.410	4.5	242.9804	8.02	-1.22	398135.000	0.0	4	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
243.0221	18.02	-2.57	226646.060	4.0	267782.100	3.0	243.2930	44.00	-0.17	6452.602	0.0	47555.305	0.0
243.0260	71.01	-0.77	32263.008	0.0	73410.869	0.0	243.2953	25.02	-3.46	94771.470	2.5	135861.320	1.5
243.0297	25.00	-3.45	23549.200	2.5	64683.950	1.5	243.2983	23.01	-2.06	11514.760	1.0	52604.110	1.0
243.0359	26.00	-2.38	19621.004	5.0	60754.710	4.0	243.2996	24.00	-2.96	7750.780	0.0	48839.900	1.0
243.0393	25.00	-0.18	25285.430	4.5	66418.550	5.0	243.3016	22.01	-4.78	907.960	1.5	41996.740	0.5
243.0428	25.01	-3.76	44315.170	6.0	85447.700	5.0	243.3045	24.01	-3.46	33619.130	4.5	74707.420	5.5
243.0430	42.00	-0.14	12259.943	0.0	53404.926	0.0	243.3045	26.01	-0.15	43238.610	2.5	84326.910	1.5
243.0440	74.00	0.07	14840.984	0.0	55985.797	0.0	243.3047	26.02	-1.97	77075.300	1.0	118163.560	2.0
243.0444	26.01	-1.94	67516.370	5.5	108648.640	6.5	243.3064	26.00	-2.42	8154.713	1.0	49242.680	2.0
243.0445	25.01	-2.54	48333.060	5.0	89465.300	4.0	243.3093	25.02	-2.77	94771.470	2.5	135858.960	2.5
243.0479	25.01	-3.95	49465.130	3.0	90596.800	2.0	243.3163	26.01	-4.42	59663.450	1.5	100749.750	2.5
243.0586	24.01	-1.54	48491.390	2.5	89621.250	3.5	243.3166	24.00	-7.33	0.000	3.0	41086.260	3.0
243.0598	24.01	-2.76	32355.940	3.5	73485.600	3.5	243.3205	24.01	-0.81	34631.140	4.5	75716.740	3.5
243.0612	25.02	-3.16	134789.080	5.5	175918.500	5.5	243.3224	22.00	-0.36	170.132	3.0	41255.400	4.0
243.0613	28.02	-4.63	79143.300	2.0	120272.700	1.0	243.3237	22.01	-4.04	983.800	2.5	42068.850	1.5
243.0662	23.02	-3.87	99804.570	2.5	140933.140	3.5	243.3280	56.00	-2.60	0.000	0.0	41096.791	0.0
243.0669	29.01	-3.23	95565.650	4.0	136694.100	4.0	243.3280	75.00	-0.06	16212.162	0.0	57308.953	0.0
243.0670	25.01	-2.25	49889.860	3.0	91018.300	3.0	243.3282	9.02	-3.03	390976.350	1.5	432060.640	1.5
243.0752	25.01	-2.87	29951.120	1.0	71078.180	1.0	243.3296	26.02	-3.62	109570.840	2.0	150654.900	3.0
243.0765	6.01	-1.39	184690.980	1.5	225817.800	2.5	243.3322	20.02	-1.06	282571.430	1.0	323655.060	2.0
243.0883	26.01	-0.48	42334.860	2.5	83459.700	1.5	243.3347	24.02	-3.30	70291.800	2.0	111375.000	3.0
243.0960	10.01	-1.49	280947.100	1.5	322070.630	2.5	243.3437	26.02	-2.46	141399.040	2.0	182480.720	2.0
243.0984	23.01	-4.74	13594.730	2.0	54717.850	1.0	243.3470	50.00	-1.67	3387.616	0.0	44481.198	0.0
243.1060	73.01	0.07	967.890	0.0	42102.210	0.0	243.3471	25.02	-0.71	71564.210	1.5	112645.310	0.5
243.1073	22.01	-3.72	1087.210	3.5	42208.840	2.5	243.3471	10.01	-1.91	280989.530	1.5	322070.630	2.5
243.1080	74.00	-0.17	3306.958	0.0	44440.940	0.0	243.3488	6.01	-1.56	184690.980	1.5	225771.800	1.5
243.1091	20.02	-1.04	281882.240	2.0	323003.560	1.0	243.3497	26.01	-0.92	21581.640	4.5	62662.300	5.5
243.1110	30.02	-1.54	219684.900	3.0	260805.900	2.0	243.3531	23.03	0.11	223033.000	3.0	264113.100	4.0
243.1116	23.01	-4.61	13594.730	2.0	54715.630	2.0	243.3547	8.01	-0.97	188888.380	0.5	229968.200	1.5
243.1150	90.01	-1.00	4436.164	0.0	45568.961	0.0	243.3555	28.01	-1.41	14995.570	2.5	56075.260	2.5
243.1151	27.02	-2.55	132489.000	2.5	173609.300	1.5	243.3567	26.01	-0.35	38164.240	2.5	79243.730	1.5
243.1151	27.02	-2.55	132489.000	2.5	173609.300	1.5	243.3570	72.01	0.42	17260.709	0.0	58352.603	0.0
243.1151	27.02	-2.77	132489.000	2.5	173609.300	1.5	243.3581	24.01	-2.31	49646.250	3.5	90725.500	3.5
243.1175	28.01	-2.13	93225.850	3.5	133445.750	4.5	243.3590	73.01	0.21	3145.643	0.0	44237.199	0.0
243.1181	27.02	-4.82	130407.800	2.5	171527.600	3.5	243.3640	10.02	-0.19	398986.640	2.0	440064.900	1.0
243.1190	76.00	-0.05	5081.424	0.0	46213.544	0.0	243.3720	25.02	-5.00	132971.990	3.5	174048.890	2.5
243.1240	77.00	-0.74	0.000	0.0	41131.275	0.0	243.3732	24.02	-0.71	71321.800	3.0	112398.500	4.0
243.1246	9.03	-0.59	542266.300	1.0	583385.000	2.0	243.3747	27.00	-6.65	4690.180	2.5	45766.630	3.5
243.1251	26.01	-1.01	42439.880	0.5	83558.500	0.5	243.3780	24.01	-2.16	48399.190	1.5	89475.080	2.5
243.1317	26.02	-1.62	88923.070	6.0	130040.560	7.0	243.3800	41.01	0.69	9436.930	0.0	50524.941	0.0
243.1352	27.01	0.61	21624.400	5.0	62741.300	6.0	243.3803	26.02	-4.66	138103.120	4.0	179178.620	3.0
243.1431	25.01	-1.76	43528.300	5.0	84643.860	6.0	243.3837	26.02	-4.30	158729.890	3.0	199804.810	4.0
243.1434	28.01	-2.42	68154.310	1.5	109269.830	1.5	243.3838	25.01	-3.42	32836.400	1.0	73911.310	1.0
243.1515	25.00	-1.42	25281.040	2.5	66395.190	2.5	243.3898	25.02	-3.24	94707.200	4.5	135781.090	5.5
243.1531	26.01	-2.87	67516.370	5.5	108630.240	5.5	243.3921	27.02	-2.86	83938.900	3.5	125012.400	4.5
243.1553	25.02	-4.61	94397.200	3.5	135510.700	2.5	243.3948	9.02	-1.02	349007.250	2.5	390080.300	1.5
243.1565	28.01	-1.54	29593.460	0.5	70706.770	1.5	243.3980	74.00	0.03	4758.794	0.0	45843.766	0.0
243.1573	23.00	-3.14	323.420	3.5	41436.580	3.5	243.3990	15.00	-2.07	18747.950	1.5	59820.300	5.5
243.1582	25.00	-1.26	23296.670	3.5	64409.690	3.5	243.4002	26.01	-2.82	61512.670	4.5	102584.810	5.5
243.1595	23.01	-4.31	25191.080	2.0	66303.880	3.0	243.4021	8.01	-4.77	214229.480	1.5	255301.300	2.5
243.1610	76.00	0.47	11292.053	0.0	52417.069	0.0	243.4049	26.01	-0.38	42237.050	3.5	83308.400	2.5
243.1618	25.03	-3.72	130969.500	3.0	172081.900	3.0	243.4062	25.01	-2.07	29869.110	2.0	70940.240	2.0
243.1630	18.01	-2.77	160239.350	1.5	201351.550	2.5	243.4071	25.00	-1.42	25285.430	4.5	66356.400	4.5
243.1662	8.01	-2.49	214169.740	0.5	255281.400	0.5	243.4085	22.00	-0.78	386.874	4.0	41457.620	3.0
243.1669	25.02	-3.12	91948.300	3.5	133059.840	3.5	243.4097	9.02	-0.40	349007.250	2.5	390077.800	2.5
243.1678	24.00	-1.78	24897.950	4.0	66008.950	3.0	243.4106	17.01	-0.25	128729.800	3.0	169800.200	4.0
243.1726	27.00	-3.48	5075.830	1.5	46186.410	1.5	243.4141	17.01	-0.84	128729.800	3.0	169799.600	3.0
243.1740	28.01	-2.32	77332.470	2.5	118442.810	1.5	243.4171	17.01	-1.68	128729.800	3.0	169799.100	2.0
243.1777	22.00	-0.86	7255.369	2.0	48365.090	3.0	243.4208	25.00	-0.37	25287.740	3.5	66356.400	4.5
243.1850	45.01	0.54	21051.613	0.0	62172.570	0.0	243.4216	26.01	-2.92	39109.340	0.5	80177.870	1.5
243.1887	26.01	-7.50	23317.600	2.5	64425.460	2.5	243.4227	24.00	-1.13	24940.610	2.0	66008.950	3.0
243.1896	23.03	0.30	222794.600	2.0	263902.300	3.0	243.4230	28.02	-1.27	75123.800	5.0	116192.100	4.0
243.1911	25.00	-2.14	25267.740	3.5	66395.190	2.5	243.4247	26.01	-0.06	42658.230	3.5	83726.240	3.5
243.1940	77.00	0.15	4032.876	0.0	45152.312	0.0	243.4266	26.02	-4.99	138691.810	1.0	179759.490	2.0
243.1956	23.00	-1.59	553.020	4.5	41659.710	5.5	243.4275	6.01	-0.22	195813.660	4.5	236881.200	5.5
243.2005	18.01	-2.48	160239.350	1.5	201345.220	1.5	243.4295	30.02	0.25	216895.300	1.0	257962.500	2.0
243.2018	26.01	-2.73	33501.320	3.5	74606.970	2.5	243.4310	28.01	-1.85	73903.250	0.5	114970.190	0.5
243.2026	23.00	-6.33	323.420	3.5	41428.930	2.5	243.4358	24.01	-2.41	33418.110	2.5	74484.250	2.5
243.2044	24.02	-4.41	116532.100	3.0	157637.300	3.0	243.4361	18.01	-3.63	132327.280	3.5	173393.380	2.5
243.2068	25.02	-3.78	138234.790	1.5	179339.590	2.5	243.4373	25.02	-2.91	91906.100	2.5	132971.990	3.5
243.2089	26.02	-3.15	138103.120	4.0	179207.570	5.0	243.4409	23.01	-4.15	26839.820	3.0	67905.100	3.0
243.2096	10.01	-3.74	280947.100	1.5	322051.430	2.5	243.4409	25.01	-2.18	37847.900	2.0	78913.170	2.0
243.2109	23.01	-4.93	20980.920	2.0	62085.020	2.0	243.4409	26.01	-1.37	31364.470	1.5	72429.740	0.5
243.2124	10.01	-3.11	280947.100	1.5	322050.950	1.5	243.4412	28.00	-1.58	34009.925	2.0	44475.158	2.0
243.2134	25.00	-4.87	23719.520	1.5	64823.210	2.5	243.4461	27.02	-3.03	83938.900	3.5	125003.300	2.5
243.2180	75.00	0.11	11695.340	0.0	52810.718	0.0	243.4477	6.01	-2.80	195813.660	4.5	236877.800	3.5
243.2198	26.02	-3.80	98661.880	1.0	139764.480	2.0	243.4536	24.00	-6.51	8307.570	4.0	49370.700	3.0
243.2209	27.00	0.42	816.000	3.5	41918.410	3.5	243.4602	25.01	-2.22	37			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
243.5150	25.01	-1.32	44899.820	3.0	85952.600	3.0	243.7500	28.02	-2.42	76237.800	3.0	117251.000	3.0
243.5154	14.00	-4.46	6298.850	2.0	47351.554	2.0	243.7506	9.02	-3.46	391047.540	.5	432060.640	1.5
243.5168	25.01	-3.95	32858.840	2.0	73911.310	1.0	243.7509	18.01	-3.26	159393.310	1.5	200406.360	.5
243.5201	8.01	-2.78	214229.480	1.5	255281.400	.5	243.7515	24.01	-2.44	33694.470	5.5	74707.420	5.5
243.5260	25.01	-2.98	29889.310	3.0	70940.240	2.0	243.7518	30.02	.09	216895.300	1.0	257908.200	1.0
243.5344	26.00	-4.41	12560.933	3.0	53610.440	4.0	243.7532	25.01	-2.21	62587.500	3.0	103600.170	2.0
243.5351	24.02	-2.36	71321.800	3.0	112371.200	2.0	243.7538	24.01	-1.82	49838.430	4.5	90851.000	.45
243.5372	25.00	-2.50	25285.430	4.5	66334.470	3.5	243.7569	25.02	-3.34	94697.850	3.5	135709.900	2.5
243.5383	24.01	-3.27	33694.470	5.5	74743.330	6.5	243.7598	25.01	-2.80	38901.800	4.0	79913.350	4.0
243.5484	6.01	-1.39	195765.850	2.5	236813.000	2.5	243.7615	26.02	-3.48	141469.450	1.0	182480.720	2.0
243.5488	28.01	-2.09	57420.160	2.5	98467.250	3.5	243.7643	28.02	-1.07	97841.400	2.0	138852.200	3.0
243.5509	25.00	-1.92	25287.740	3.5	66334.470	3.5	243.7643	26.01	-1.28	41968.110	5.5	82978.900	.45
243.5510	76.00	-4.42	5726.684	0.0	46785.846	0.0	243.7651	25.02	-3.04	94850.660	1.5	135861.320	1.5
243.5514	28.01	-2.75	77332.470	2.5	118379.110	2.5	243.7670	73.00	-1.26	0.000	0.0	41022.780	0.0
243.5532	23.00	-4.21	553.020	4.5	41599.360	4.5	243.7698	26.02	-4.40	141399.040	2.0	182408.910	3.0
243.5594	27.02	-3.84	131538.300	4.5	172583.600	3.5	243.7712	6.01	-2.93	195813.660	4.5	236823.300	3.5
243.5630	10.01	-2.09	281025.940	2.5	322070.630	2.5	243.7790	47.01	.11	38957.582	0.0	79978.343	0.0
243.5645	10.01	-1.79	281025.940	2.5	322070.630	2.5	243.7792	25.02	-2.16	94850.660	1.5	135858.960	2.5
243.5647	9.03	-1.31	451819.600	1.0	492864.000	2.0	243.7850	25.01	.40	38542.960	3.0	79550.280	3.0
243.5650	76.00	.13	12905.030	0.0	53962.005	0.0	243.7889	28.01	-.37	13550.390	3.5	54557.050	4.5
243.5710	24.00	-5.68	0.000	3.0	41043.350	3.0	243.7911	26.02	-3.59	138187.930	3.0	179194.220	4.0
243.5732	24.00	-5.31	7593.160	2.0	48636.140	3.0	243.7939	26.00	-3.99	7376.762	4.0	48382.585	5.0
243.5810	26.01	-3.45	21251.550	6.5	62293.200	6.5	243.7944	24.01	-3.72	33418.110	2.5	74423.840	3.5
243.5824	27.00	-1.98	0.000	4.5	41041.430	3.5	243.7960	76.00	-.87	9436.930	0.0	50454.830	0.0
243.5853	25.02	-3.07	97271.760	5.5	138312.700	4.5	243.7974	25.02	-4.31	97239.860	6.5	138245.090	5.5
243.5873	17.02	-1.13	217850.200	2.5	258890.800	1.5	243.8010	57.01	-.27	18793.202	0.0	59810.261	0.0
243.5950	41.01	.40	9759.560	0.0	50811.306	0.0	243.8089	24.00	-3.88	8307.570	4.0	49310.860	3.0
243.5958	28.01	-1.56	73903.250	.5	114942.420	1.5	243.8110	24.00	-.82	25177.390	4.0	66180.340	5.0
243.5960	42.01	.30	22745.421	0.0	63796.998	0.0	243.8113	25.02	-2.87	135692.170	3.5	176695.060	4.5
243.5960	74.00	.48	4758.794	0.0	45810.371	0.0	243.8121	8.01	-2.81	214169.740	.5	255172.500	1.5
243.6013	26.01	-1.73	62945.120	3.5	103983.350	3.5	243.8166	27.02	-3.11	131581.600	3.5	172583.600	3.5
243.6050	75.00	-.30	16534.792	0.0	57584.853	0.0	243.8166	27.02	-3.11	131581.600	3.5	172583.600	3.5
243.6053	6.01	-1.27	195785.740	3.5	236823.300	3.5	243.8166	27.02	-3.21	131581.600	3.5	172583.600	3.5
243.6124	26.02	-2.07	93512.640	4.0	134549.000	3.0	243.8172	30.02	.40	217073.800	2.0	258075.700	3.0
243.6130	26.00	-4.22	12968.552	2.0	54004.820	3.0	243.8174	26.02	-2.24	40999.870	2.0	82001.730	2.0
243.6169	17.02	.01	217850.200	2.5	258885.800	2.5	243.8183	26.00	-1.48	6928.266	5.0	47929.981	4.0
243.6177	25.01	-2.12	62564.700	1.0	103600.170	2.0	243.8189	23.01	-6.14	16340.970	3.0	57342.590	2.0
243.6215	9.02	-1.22	348702.800	.5	389737.630	.5	243.8193	25.01	-.02	38542.960	3.0	79544.510	2.0
243.6218	26.01	-.98	25428.800	5.5	66463.590	5.5	243.8202	27.02	-3.62	85474.100	6.5	126475.500	6.5
243.6226	25.02	-2.35	94697.850	3.5	135732.500	4.5	243.8205	27.00	-4.22	7442.410	3.5	48443.760	2.5
243.6260	74.00	-1.56	2903.671	0.0	43950.193	0.0	243.8228	26.02	-2.60	84671.870	3.0	125672.830	2.0
243.6271	27.02	-2.27	86283.800	4.5	127317.700	3.5	243.8268	19.02	-1.19	201165.000	2.5	242165.300	1.5
243.6307	28.01	-1.86	72375.420	1.5	113408.710	1.5	243.8293	22.00	-1.44	170.132	3.0	41170.003	3.0
243.6313	27.01	-.28	11651.310	2.0	52684.500	1.0	243.8346	25.02	-3.64	138340.620	2.5	179339.590	2.5
243.6330	41.00	-.42	2097.096	0.0	43142.439	0.0	243.8356	30.02	-3.85	261909.700	4.0	302908.500	4.0
243.6354	24.02	-1.99	56650.500	2.0	97683.000	3.0	243.8406	27.00	-3.76	4690.180	2.5	45588.150	2.5
243.6354	27.02	-2.46	130909.000	1.5	171941.500	.5	243.8419	24.01	-.88	36272.660	4.5	77270.400	4.5
243.6354	27.02	-2.46	130909.000	1.5	171941.500	.5	243.8430	26.01	-1.80	61587.240	5.5	102584.810	5.5
243.6390	28.01	-2.74	72375.420	1.5	113407.310	2.5	243.8460	75.00	-.12	13711.778	0.0	54721.268	0.0
243.6420	77.00	-.30	12985.861	0.0	54029.688	0.0	243.8461	24.01	-.68	34813.060	5.5	75810.100	4.5
243.6472	10.01	-.92	281025.940	2.5	322056.440	3.5	243.8510	28.01	-3.72	75149.480	4.5	116145.690	3.5
243.6502	27.01	.37	41313.900	3.0	82343.900	4.0	243.8623	25.02	-2.92	94697.850	3.5	135692.170	3.5
243.6510	73.01	1.04	12340.601	0.0	53382.912	0.0	243.8640	73.01	.57	6775.232	0.0	47781.695	0.0
243.6510	76.00	-.58	12905.203	0.0	53947.514	0.0	243.8648	25.02	-3.49	138234.790	1.5	179228.690	1.5
243.6529	6.01	-1.38	195813.660	4.5	236843.200	4.5	243.8671	26.02	-3.42	141399.040	2.0	182392.550	2.0
243.6535	25.01	.68	65482.660	3.0	106512.100	4.0	243.8676	25.00	-3.06	23719.520	1.5	64712.940	2.5
243.6548	26.01	-.23	38214.500	1.5	79243.730	1.5	243.8689	25.01	-4.44	32787.600	4.0	73780.810	3.0
243.6557	24.00	-3.32	7810.820	1.0	48839.900	1.0	243.8765	23.02	-3.79	99941.200	3.5	140933.140	3.5
243.6620	74.00	-.57	3306.958	0.0	44347.416	0.0	243.8768	14.00	-2.96	0.000	0.0	40991.884	1.0
243.6623	25.01	-2.74	62572.200	2.0	103600.170	2.0	243.8782	25.02	-2.28	91906.100	2.5	132897.740	2.5
243.6629	26.01	-.70	43238.610	2.5	84266.480	2.5	243.8785	25.02	-4.46	135692.170	3.5	176683.760	2.5
243.6645	28.02	-3.68	75646.900	4.0	116574.500	4.0	243.8786	9.02	-4.16	390976.350	1.5	431967.930	.5
243.6657	27.00	.22	1406.840	2.5	42434.230	2.5	243.8835	28.01	-2.85	93390.060	2.5	134380.820	3.5
243.6665	6.01	-2.82	195785.740	3.5	236813.000	2.5	243.8839	26.02	-4.15	138187.930	3.0	179178.620	3.0
243.6668	27.02	-3.92	85474.100	6.5	126501.300	5.5	243.8844	27.02	-1.43	86327.100	3.5	127317.700	3.5
243.6690	78.00	-.87	725.918	0.0	41765.197	0.0	243.8899	8.02	-.50	324734.220	2.0	365723.900	1.0
243.6718	26.01	-4.65	38858.960	2.5	79885.320	2.5	243.8930	25.01	-1.92	44745.460	2.0	85734.620	3.0
243.6722	24.01	-1.89	49564.800	1.5	90591.100	2.5	243.8932	25.01	-2.28	29951.120	1.0	70940.240	2.0
243.6744	25.02	-1.59	135944.080	4.5	176970.010	5.5	243.8986	28.01	-1.98	68281.620	.5	109269.830	1.5
243.6770	10.01	-2.33	281025.940	2.5	322051.430	2.5	243.9016	24.00	-.98	25106.340	3.0	66094.060	4.0
243.6781	25.02	-2.90	94707.200	4.5	135732.500	4.5	243.9038	27.00	.06	1809.330	1.5	42796.670	1.5
243.6798	10.01	-3.38	281025.940	2.5	322050.950	1.5	243.9060	75.00	-.37	11695.340	0.0	52694.741	0.0
243.6860	25.02	-4.91	135246.270	2.5	176270.250	3.5	243.9111	23.00	-2.88	553.020	4.5	41539.140	4.5
243.6877	25.02	-2.39	91948.300	3.5	132971.990	2.5	243.9168	26.00	-1.17	7376.762	4.0	48361.920	4.0
243.6904	27.00	-3.50	8460.810	2.5	49484.050	3.5	243.9179	25.02	-2.64	94707.200	4.5	135692.170	3.5
243.6932	25.00	-4.73	17052.290	4.5	58075.060	5.5	243.9237	27.02	-4.08	85517.300	5.5	126501.300	5.5
243.6971	27.01	-.79	4950.000	2.0	45972.100	3.0	243.9255	24.01	-1.80	48491.390	2.5	89475.080	2.5
243.6983	18.01	-2.67	150147.620	2.5	191169.520	1.5	243.9280	24.01	-3.69	33521.230	3.5	74504.510	4.5
243.6995	25.01												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
244.0140	26.01	-6.35	23317.600	2.5	64286.440	3.5	244.2626	6.01	-2.37	195765.850	2.5	236693.000	1.5
244.0141	27.00	-2.47	4142.660	3.5	45111.480	4.5	244.2634	27.00	-3.67	5075.830	1.5	46002.830	2.5
244.0168	27.01	-2.81	45972.100	3.0	86940.460	2.0	244.2646	29.01	-2.56	69704.800	4.0	110631.600	5.0
244.0192	15.00	-4.90	18747.950	1.5	59715.900	1.5	244.2653	25.01	-3.04	41190.470	6.0	82117.160	5.0
244.0193	26.02	-3.35	93392.450	3.0	134360.400	4.0	244.2670	25.01	-2.37	32858.840	2.0	73785.250	2.0
244.0194	27.01	-2.30	45378.800	4.0	86346.730	3.0	244.2680	41.01	.61	16131.504	0.0	57070.145	0.0
244.0194	22.01	-.88	12628.770	1.5	53596.700	1.5	244.2683	25.01	-3.39	44521.520	4.0	85447.700	5.0
244.0225	24.02	-4.40	117099.300	4.0	158066.700	3.0	244.2686	22.01	-1.76	12628.770	1.5	53554.900	2.5
244.0280	42.01	.16	17099.394	0.0	58078.298	0.0	244.2693	26.02	-4.29	141466.530	3.0	182392.550	2.0
244.0281	26.00	-.66	19788.248	4.0	60754.710	4.0	244.2705	26.01	-1.61	44753.820	3.5	85679.640	2.5
244.0302	26.02	-1.78	84671.870	3.0	125637.980	3.0	244.2796	18.01	-2.49	154203.970	3.5	195128.270	4.5
244.0340	45.00	-.37	1451.835	0.0	42429.732	0.0	244.2822	25.01	-1.65	32856.950	3.0	73780.810	3.0
244.0402	25.00	-1.79	23719.520	1.5	64683.950	1.5	244.2867	26.02	-4.88	141469.450	1.0	182392.550	2.0
244.0417	26.01	.13	31387.980	2.5	72352.170	3.5	244.2874	26.00	-4.49	12968.552	2.0	53891.540	3.0
244.0452	25.01	.08	51553.060	5.0	92516.650	4.0	244.2889	26.00	-4.77	11976.239	4.0	52898.980	5.0
244.0486	24.01	-1.28	33521.230	3.5	74484.250	2.5	244.2912	6.01	-2.35	195785.740	3.5	236708.100	4.5
244.0514	25.02	-1.15	135732.500	4.5	176695.060	4.5	244.2935	25.01	-3.32	32858.840	2.0	73780.810	3.0
244.0554	26.02	-2.80	105929.160	3.0	146891.040	3.0	244.2938	24.00	-5.31	7593.160	2.0	48515.080	3.0
244.0581	26.02	-3.17	90483.590	3.0	131445.030	2.0	244.2956	26.02	-2.53	142535.070	2.0	183456.690	3.0
244.0604	26.02	-2.36	82494.880	1.0	123455.920	0.0	244.2957	18.01	-2.80	157673.320	2.5	198594.920	3.5
244.0640	10.01	-3.73	280473.580	1.5	321434.020	1.5	244.2978	6.01	-1.48	195785.740	3.5	236707.000	3.5
244.0671	25.01	-2.00	41182.530	7.0	82142.460	6.0	244.3011	25.02	-2.30	94771.470	2.5	135692.170	3.5
244.0680	76.00	-.52	11292.053	0.0	52264.241	0.0	244.3029	9.02	-4.34	391047.540	.5	431967.930	.5
244.0774	27.02	-4.80	85517.300	5.5	126475.500	6.5	244.3035	22.01	-3.63	4628.610	2.5	45548.900	1.5
244.0785	15.04	.59	304445.300	1.5	345403.300	2.5	244.3037	26.01	-5.50	20805.830	4.5	61726.090	3.5
244.0842	25.01	-2.36	43311.000	1.0	84268.060	1.0	244.3051	9.02	-1.29	348817.600	1.5	389737.630	.5
244.0846	26.02	-3.12	138264.470	6.0	179221.450	7.0	244.3102	25.00	-2.62	23719.520	1.5	64638.680	.5
244.0949	25.01	-3.02	46903.260	2.0	87858.510	2.0	244.3124	27.02	-4.28	131883.900	2.5	172802.700	2.5
244.0972	25.02	-2.49	94906.450	.5	135861.320	1.5	244.3184	27.02	-4.18	132277.100	3.5	173194.900	2.5
244.0983	22.00	-.21	386.874	4.0	41341.553	5.0	244.3184	27.02	-4.18	132277.100	3.5	173194.900	2.5
244.1019	25.02	-2.74	135510.700	2.5	176464.780	3.5	244.3184	27.02	-2.73	132277.100	3.5	173194.900	2.5
244.1021	27.01	-2.19	24074.600	2.0	65028.650	1.0	244.3218	18.01	-2.20	159706.460	.5	200623.700	.5
244.1059	25.01	.73	65565.680	4.0	106519.100	5.0	244.3251	24.00	-3.38	25177.390	4.0	66094.060	4.0
244.1066	8.02	-.80	398474.300	3.0	439427.600	3.0	244.3303	29.01	-1.59	73595.640	1.0	114511.440	1.0
244.1078	15.04	-.36	304445.300	1.5	345398.400	1.5	244.3323	28.01	-3.45	71770.830	2.5	112686.300	2.5
244.1119	27.01	-3.11	22414.500	3.0	63366.900	2.0	244.3330	74.00	-.45	19680.435	0.0	60608.165	0.0
244.1125	24.02	-2.75	118423.300	2.0	159375.600	3.0	244.3356	24.01	-3.38	33521.230	3.5	74436.140	2.5
244.1132	26.01	-.08	44232.510	4.5	85184.690	4.5	244.3365	14.00	-2.90	77.115	1.0	40991.884	1.0
244.1133	26.02	-4.58	141466.530	3.0	182418.700	4.0	244.3393	25.01	-4.94	35004.430	3.0	75918.730	2.0
244.1143	26.02	-4.02	138264.470	6.0	179216.470	6.0	244.3412	25.02	-2.38	135781.090	5.5	176695.060	4.5
244.1144	25.01	-4.05	41190.470	6.0	82142.460	6.0	244.3481	25.01	-4.34	41204.340	5.0	82117.160	5.0
244.1233	18.02	-.44	243145.760	2.0	284096.260	2.0	244.3504	24.00	-5.30	7927.470	2.0	48839.900	1.0
244.1289	18.01	-1.39	158730.210	2.5	199679.760	2.5	244.3514	6.01	-2.25	195785.740	3.5	236698.000	2.5
244.1296	25.02	-2.85	91948.300	3.5	132897.740	2.5	244.3515	18.01	-4.18	132481.140	2.5	173393.380	2.5
244.1327	28.01	-1.51	71770.830	2.5	112719.750	3.5	244.3516	14.01	-1.24	81251.580	1.5	122163.800	2.5
244.1331	25.01	-3.89	32836.400	1.0	73785.250	2.0	244.3520	14.01	-2.19	81251.580	1.5	122163.740	1.5
244.1358	23.00	-3.30	553.020	4.5	41501.410	4.5	244.3542	25.03	-4.81	131170.100	4.0	172081.900	3.0
244.1370	30.02	-2.80	261921.600	2.0	302869.800	3.0	244.3546	25.02	-1.75	97023.800	3.5	137935.530	4.5
244.1398	8.02	-1.70	329467.980	2.0	370415.700	1.0	244.3551	27.00	-1.22	3482.820	4.5	44394.470	3.5
244.1400	24.01	-2.13	49564.800	1.5	90512.500	1.5	244.3620	74.00	.08	16857.422	0.0	57780.315	0.0
244.1400	27.01	-1.58	28111.900	2.0	69059.590	3.0	244.3703	18.02	-.07	231341.800	2.0	272250.900	3.0
244.1435	10.01	-1.89	280473.580	1.5	321420.690	2.5	244.3727	27.02	-4.72	91715.100	2.5	132623.800	3.5
244.1451	10.01	-1.82	280473.580	1.5	321420.690	2.5	244.3763	27.01	-.69	11321.500	2.0	52229.600	2.0
244.1451	18.01	-4.00	154181.430	4.5	195128.270	4.5	244.3805	25.02	-.44	97000.800	4.5	137908.200	5.5
244.1470	26.01	-3.22	62662.300	5.5	103608.820	4.5	244.3808	25.01	-4.35	27589.030	2.0	68496.370	1.0
244.1470	75.00	-1.19	0.000	0.0	40958.930	0.0	244.3825	26.01	-1.00	42401.330	1.5	83308.400	2.5
244.1476	25.01	-.58	65565.680	4.0	106512.100	4.0	244.3840	82.00	-.64	7743.122	0.0	48662.331	0.0
244.1486	23.02	-4.14	99804.570	2.5	140750.820	2.5	244.3873	26.00	-.45	6928.266	5.0	47834.529	5.0
244.1494	26.02	-4.20	141466.530	3.0	182412.650	4.0	244.3924	30.02	-3.72	261921.600	2.0	302827.000	2.0
244.1507	28.01	-4.06	95573.390	3.5	136519.280	4.5	244.4060	74.00	-.41	1613.150	0.0	42528.676	0.0
244.1536	6.01	-2.37	195752.580	1.5	236698.000	2.5	244.4068	24.02	-4.84	116532.100	3.0	157435.100	2.0
244.1547	26.01	-2.04	26055.400	2.5	67000.630	2.5	244.4091	24.01	-1.56	33521.230	3.5	74423.840	3.5
244.1564	26.02	-4.83	159493.000	3.0	200437.940	2.0	244.4091	24.00	-2.69	25106.340	3.0	66008.950	3.0
244.1570	24.01	-2.94	49646.250	3.5	90591.100	2.5	244.4098	25.03	-3.19	152858.200	3.0	193760.700	4.0
244.1588	26.00	-4.92	12968.552	2.0	53913.090	2.0	244.4130	73.01	.04	2581.041	0.0	43495.395	0.0
244.1607	9.02	-.10	349266.200	3.5	390210.430	3.5	244.4202	24.01	-1.86	33418.110	2.5	74318.860	2.5
244.1637	29.00	-2.44	0.000	0.0	40956.129	0.0	244.4252	25.01	-1.72	43528.300	5.0	84428.210	5.0
244.1663	23.01	-2.43	14556.090	4.0	55499.380	5.0	244.4257	8.01	-1.65	189068.370	1.5	229968.200	1.5
244.1666	28.00	-3.78	1713.080	1.0	42656.317	1.0	244.4280	26.01	-.58	42237.050	3.5	83136.500	3.5
244.1674	26.02	-4.80	138264.470	6.0	179207.570	5.0	244.4292	10.01	-4.78	281171.380	2.5	322070.630	2.5
244.1679	8.01	-1.99	214229.480	1.5	255172.500	1.5	244.4307	10.01	-1.38	281171.380	2.5	322070.380	3.5
244.1717	26.02	-2.70	141466.530	3.0	182408.910	3.0	244.4324	25.01	-4.72	38901.800	4.0	79800.520	4.0
244.1726	27.01	-.28	24074.600	2.0	65016.830	2.0	244.4368	23.01	-4.05	26839.820	3.0	67737.800	2.0
244.1726	8.02	-1.39	329581.980	1.0	370524.200	2.0	244.4444	29.02	-1.36	77967.600	2.5	118864.300	3.5
244.1733	18.01	-2.27	154181.430	4.5	195123.540	5.5	244.4460	90.01	-1.34	1451.835	0.0	42360.666	0.0
244.1742	9.01	-4.32	236960.830	1.0	277902.790	2.0	244.4486	23.01	-4.85	23391.090	5.0	64287.100	5.0
244.1781	27.01	-1.19	27902.500	4.0	68843.800	4.0	244.4512	26.01	.60	20830.520	2.5	61726.090	3.5
244.1790	6.01	-2.24	195765.850	2.5	236707.000	3.5	244.4515	25.01	-1.44	32787.600	4.0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
244.5246	8.02	-1.10	398544.300	2.0	439427.600	3.0	244.7875	25.02	-2.14	138312.700	4.5	179152.090	3.5
244.5307	28.01	-2.58	68156.570	1.5	109038.840	1.5	244.7910	46.00	-1.12	0.000	0.0	40851.175	0.0
244.5331	24.01	-4.77	32603.730	2.5	73489.600	3.5	244.7916	27.02	-3.85	131538.300	4.5	172377.000	3.5
244.5340	77.00	-0.35	6291.287	0.0	47189.396	0.0	244.7925	22.01	-1.85	12758.150	2.5	53596.700	1.5
244.5341	23.01	-2.43	8841.970	3.0	49723.680	4.0	244.7930	47.01	-0.39	45813.471	0.0	86664.312	0.0
244.5356	27.00	-2.91	5075.830	1.5	45957.290	5.0	244.7953	25.01	-1.60	38901.800	4.0	79739.880	5.0
244.5359	25.03	-2.09	152858.200	3.0	193739.600	2.0	244.7958	23.01	-6.14	23391.090	5.0	64229.100	5.0
244.5380	56.00	-2.81	0.000	0.0	40893.440	0.0	244.7968	24.01	-2.47	45669.540	1.5	86507.380	2.5
244.5399	26.02	-2.86	148915.300	1.0	189796.030	1.0	244.8032	24.01	-2.99	33619.130	4.5	74455.900	4.5
244.5440	10.01	-2.09	281171.380	2.5	322051.430	2.5	244.8087	28.01	-2.87	92373.450	2.5	133209.300	2.5
244.5469	10.01	-3.39	281171.380	2.5	322050.950	1.5	244.8132	28.02	-4.32	140183.800	4.0	181018.900	5.0
244.5510	51.00	-5.54	8469.040	0.0	49360.306	0.0	244.8150	25.01	-3.64	44899.820	3.0	85734.620	3.0
244.5549	8.01	-0.71	189068.370	1.5	229946.600	2.5	244.8167	18.01	-3.53	163299.470	2.5	204133.980	2.5
244.5567	26.01	-1.14	21812.040	1.5	62689.960	2.5	244.8174	30.02	-1.10	217073.800	2.0	257908.200	1.0
244.5605	27.02	-3.34	91715.100	2.5	132592.400	1.5	244.8214	8.02	-1.50	329581.980	1.0	370415.700	1.0
244.5608	25.02	-2.55	135041.250	1.5	175918.500	5.0	244.8227	29.01	-2.88	88926.090	0.0	129759.600	1.0
244.5658	29.01	-3.48	95565.650	4.0	136442.050	3.0	244.8230	77.00	-0.51	5726.684	0.0	46572.520	0.0
244.5684	25.01	-2.07	29869.110	2.0	70745.080	3.0	244.8344	24.00	-2.74	25177.390	4.0	66008.950	3.0
244.5757	27.00	-1.80	7442.410	3.5	48317.170	3.5	244.8348	28.02	-1.02	71067.000	3.0	11898.500	4.0
244.5792	26.01	-0.01	31364.470	1.5	72238.630	2.5	244.8354	27.02	-2.93	130909.000	1.5	171740.400	1.5
244.5808	9.02	-3.90	442636.270	3.5	483510.170	2.5	244.8354	27.02	-2.93	130909.000	1.5	171740.400	1.5
244.5864	26.02	-2.20	93392.450	3.0	134265.420	2.0	244.8375	25.01	-4.67	67295.160	4.0	108126.200	3.0
244.5878	28.01	-4.77	95893.760	1.5	136766.490	2.5	244.8390	74.00	-0.30	12098.628	0.0	52941.794	0.0
244.5880	76.00	-0.16	12663.231	0.0	53548.311	0.0	244.8491	25.01	-3.61	27588.230	3.0	68417.340	2.0
244.5919	26.01	-2.50	39013.280	1.5	79885.320	2.5	244.8507	27.00	-2.88	5075.830	1.5	45904.680	1.5
244.5925	25.01	-2.64	38720.200	6.0	79592.140	6.0	244.8539	25.01	-3.98	27589.030	2.0	68417.340	2.0
244.6000	24.01	-2.60	48399.190	1.5	89269.880	5.0	244.8540	27.02	-4.76	129706.900	3.5	170535.200	4.5
244.6020	76.00	-4.42	2661.698	0.0	43544.438	0.0	244.8540	27.02	-4.76	129706.900	3.5	170535.200	4.5
244.6038	26.00	-4.77	12968.552	2.0	53838.600	3.0	244.8587	17.02	-0.69	204124.000	1.5	244951.500	3.5
244.6083	23.03	-1.10	223033.000	3.0	263902.300	3.0	244.8642	28.01	-3.24	77736.790	4.5	118563.390	5.0
244.6088	26.02	-2.64	148915.300	1.0	189784.520	2.0	244.8668	25.01	-2.81	32856.950	3.0	73683.110	4.0
244.6103	26.01	-0.19	31483.200	3.5	72352.170	3.5	244.8668	25.01	-1.88	29919.220	2.0	70745.080	3.0
244.6107	24.01	-0.54	50687.630	2.5	91556.540	1.5	244.8720	25.02	-1.66	135869.760	3.5	176695.060	4.5
244.6130	22.00	-1.34	386.874	4.0	45125.400	4.0	244.8729	26.01	-2.45	25787.600	1.5	66612.740	1.5
244.6157	25.00	-1.57	25281.040	2.5	66149.100	3.5	244.8840	45.00	-0.96	2581.041	0.0	43416.702	0.0
244.6190	25.01	-2.09	47073.560	3.0	87941.080	4.0	244.8872	9.02	-1.89	348702.800	0.5	389525.550	1.5
244.6190	82.00	-0.40	7743.122	0.0	48623.021	0.0	244.8891	25.02	-2.34	135861.320	1.5	176683.760	2.5
244.6217	26.01	-0.67	25805.320	4.5	66672.390	3.5	244.8943	18.01	-4.99	155043.070	2.5	195864.400	2.5
244.6240	18.01	-4.51	132481.140	2.5	173347.830	1.5	244.9020	77.00	-0.62	12824.546	0.0	53657.206	0.0
244.6310	24.00	-3.34	7593.160	2.0	48458.670	2.0	244.9030	75.01	-0.61	18712.545	0.0	59545.038	0.0
244.6336	25.00	-2.11	23818.870	5.0	64683.950	1.5	244.9040	45.00	-0.08	5646.026	0.0	46478.352	0.0
244.6357	18.01	-2.41	150147.620	2.5	191012.350	1.5	244.9049	25.00	-2.08	23818.870	5.0	64638.680	5.0
244.6389	25.01	-0.85	65658.300	5.0	106522.500	6.0	244.9061	23.02	-2.57	105320.180	1.5	146139.800	2.5
244.6390	68.00	-0.43	0.000	0.0	40876.557	0.0	244.9143	28.01	-2.96	93390.050	2.5	134208.300	2.5
244.6390	74.01	-0.70	7339.834	0.0	48216.391	0.0	244.9158	27.01	-0.90	4560.800	3.0	45378.800	4.0
244.6394	26.01	-0.15	42114.790	4.5	82978.900	4.5	244.9183	26.01	-2.34	21308.080	1.5	62125.660	1.5
244.6420	25.02	-2.31	136823.860	3.5	177687.540	3.5	244.9233	28.01	-2.72	92373.450	2.5	133190.190	1.5
244.6420	25.00	-2.17	25285.430	4.5	66149.100	3.5	244.9260	23.00	-5.37	2153.200	1.5	42969.400	1.5
244.6447	9.02	-3.81	425390.010	5.0	466253.240	1.5	244.9287	26.01	-2.42	20516.980	2.5	61332.820	1.5
244.6472	26.01	-0.53	21430.390	5.5	62293.200	6.5	244.9345	28.01	-1.02	75917.630	3.5	116732.510	2.5
244.6559	25.00	-1.38	25287.740	3.5	66149.100	3.5	244.9374	8.03	-0.89	513187.200	2.5	554001.600	3.5
244.6592	25.01	-1.48	65658.300	5.0	106519.100	5.0	244.9376	25.01	-2.52	46903.260	2.0	87717.620	3.0
244.6611	25.00	-1.98	23549.200	2.5	64409.690	3.5	244.9383	18.01	-2.47	163299.470	2.5	204113.710	1.5
244.6671	25.01	-2.69	44899.820	3.0	85759.300	4.0	244.9398	25.02	-3.51	135869.760	3.5	176683.760	2.5
244.6686	25.02	-2.17	94850.660	1.5	135709.900	2.5	244.9416	23.03	-0.30	222794.600	2.0	263606.300	3.0
244.6695	23.01	-1.65	11908.270	2.0	52767.360	3.0	244.9440	72.01	-0.20	6291.287	0.0	47116.945	0.0
244.6808	23.03	-0.72	223304.600	4.0	264161.800	5.0	244.9440	73.01	-0.43	6936.547	0.0	47762.205	0.0
244.6810	23.00	-5.52	2112.320	5.0	42969.440	1.5	244.9449	14.02	-0.36	201597.730	1.0	242410.880	2.0
244.6811	23.02	-1.20	105282.650	2.5	146139.800	2.5	244.9458	14.02	-0.19	201598.280	2.0	242411.270	3.0
244.6886	28.02	-1.91	97996.300	3.0	138852.200	3.0	244.9467	25.02	-3.97	94697.850	3.5	135510.700	2.5
244.6893	25.01	-2.50	29889.310	3.0	70745.080	3.0	244.9482	14.02	-1.09	201598.280	2.0	242410.880	2.0
244.6917	24.01	-0.68	33418.110	2.5	74273.480	1.5	244.9505	14.02	-0.03	201599.480	3.0	242411.700	4.0
244.6928	8.02	-1.10	398474.300	3.0	439329.500	2.0	244.9520	75.01	-0.74	26052.379	0.0	66876.704	0.0
244.6965	26.00	-1.77	7376.762	4.0	48231.330	5.0	244.9530	14.02	-1.09	201599.480	3.0	242411.270	3.0
244.6980	75.00	-0.44	14921.641	0.0	55788.342	0.0	244.9542	9.02	-1.22	349266.200	3.5	390077.800	2.5
244.7001	28.01	-2.09	67694.640	2.5	108548.610	1.5	244.9550	25.02	-3.87	138340.620	2.5	179152.090	3.5
244.7011	25.01	-2.47	65658.300	5.0	106512.100	4.0	244.9554	17.01	-3.66	146330.000	1.0	187141.400	2.0
244.7037	28.01	-2.06	58705.950	1.5	99559.330	2.5	244.9554	14.02	-2.64	201599.480	3.0	242410.880	2.0
244.7090	26.02	-3.80	93412.930	2.0	134265.420	2.0	244.9561	12.01	-2.09	71490.190	2.5	112301.470	2.5
244.7096	28.01	-4.19	93528.440	3.5	134380.820	3.5	244.9561	12.01	-0.79	71490.190	2.5	112301.470	3.5
244.7159	25.01	-2.05	53017.160	1.0	93868.500	1.0	244.9613	12.01	-0.95	71491.060	1.5	112301.470	2.5
244.7168	17.02	-1.56	204541.200	2.5	245392.400	1.5	244.9635	24.01	-0.38	33694.470	5.5	74504.510	4.5
244.7170	73.00	-1.22	0.000	0.0	40863.528	0.0	244.9661	23.02	-4.82	99941.200	3.5	140750.820	2.5
244.7200	26.01	-0.27	31387.980	2.5	72238.630	2.5	244.9710	75.00	-0.94	0.000	0.0	40821.158	0.0
244.7250	72.01	-0.17	2984.328	0.0	43846.520	0.0	244.9726	26.01	-2.33	2430.080	3.5	43238.610	2.5
244.7250	70.01	-0.97	28633.420	0.0	69495.612	0.0	244.9728	23.03	-0.20	223304.600	4.0	264113.100	4.0
244.7261	28.01	-2.18	72375.420	1.5	113225.060	5.0	244.9745	25.01	-4.13	32603.730	2.5	73411.940	1.5
244.7287	9.02	-2.29	389525.550	1.5	430374.750	2.5	244.9749	25.01</					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
245.0626	23.01	-1.76	14556.090	4.0	55349.630	3.0
245.0686	26.00	-5.15	11976.239	4.0	52768.780	4.0
245.0733	23.01	-2.37	11908.270	2.0	52700.030	2.0
245.0740	76.00	.65	8630.355	0.0	49434.357	0.0
245.0782	18.01	-2.65	160239.350	1.5	201030.300	.5
245.0839	24.02	-2.31	71676.200	4.0	112466.200	3.0
245.0840	28.01	-.64	52738.450	2.5	93528.440	3.5
245.0869	25.01	-3.42	41204.340	5.0	81993.850	4.0
245.0875	23.03	.29	223033.000	3.0	263822.400	4.0
245.0882	25.02	-3.03	138362.800	3.5	179152.090	3.5
245.0890	75.00	-.59	11534.025	0.0	52335.530	0.0
245.0970	78.00	-1.45	0.000	0.0	40800.173	0.0
245.1047	15.00	-4.32	18747.950	1.5	59534.500	2.5
245.1079	18.02	-2.19	231341.800	2.0	272127.820	1.0
245.1102	26.01	-1.89	1872.600	4.5	42658.230	3.5
245.1128	8.02	-1.85	398544.300	2.0	499329.500	2.0
245.1143	25.01	-2.69	47073.560	3.0	87858.510	2.0
245.1190	76.00	-.26	11292.053	0.0	52088.564	0.0
245.1209	26.01	-.89	25805.320	4.5	66589.170	4.5
245.1236	30.02	-.62	216895.300	1.0	257678.700	2.0
245.1252	22.00	-2.76	386.874	4.0	41170.003	3.0
245.1257	26.01	-3.13	2837.940	2.5	43620.980	1.5
245.1266	9.03	-1.74	452081.100	2.0	492864.000	2.0
245.1340	74.00	.29	12098.628	0.0	52892.643	0.0
245.1355	26.01	-2.36	20805.830	4.5	61587.240	5.5
245.1370	26.01	-1.56	31387.980	2.5	72169.150	5.5
245.1420	24.01	-2.54	45730.740	2.5	86511.080	1.5
245.1466	26.02	-3.65	117950.320	4.0	158729.890	3.0
245.1480	74.01	.70	1451.835	0.0	42243.520	0.0
245.1485	26.01	-3.16	38660.040	3.5	79439.300	3.5
245.1506	25.01	-2.33	43528.300	5.0	84307.200	4.0
245.1518	25.01	-3.22	48317.850	4.0	89096.560	4.0
245.1579	9.03	.21	452081.100	2.0	492858.800	3.0
245.1596	24.02	-4.29	118598.200	3.0	159375.600	3.0
245.1608	24.01	-3.39	36101.820	3.5	76879.030	3.5
245.1638	26.01	-4.87	18886.750	.5	59663.450	1.5
245.1642	24.01	-1.33	45730.740	2.5	86507.380	2.5
245.1642	25.01	-1.98	49820.160	2.0	90596.800	2.0
245.1672	22.01	-3.20	4897.600	3.5	45673.750	4.5
245.1730	76.00	-.25	2661.698	0.0	43449.224	0.0
245.1746	27.00	-3.28	7442.410	3.5	48217.320	3.5
245.1800	18.02	-.58	243145.760	2.0	283919.780	3.0
245.1807	25.01	-1.29	44899.820	3.0	85673.720	4.0
245.1807	27.02	-5.00	91715.100	2.5	132489.000	2.5
245.1870	41.01	.78	12179.286	0.0	52964.483	0.0
245.1884	25.02	-1.27	135692.170	3.5	176464.780	3.5
245.1904	9.02	-4.88	442748.850	2.5	483521.140	3.5
245.1905	8.02	-1.49	329643.430	0.0	370415.700	1.0
245.1916	15.01	-3.72	88894.000	1.0	129666.100	2.0
245.1939	26.02	-4.92	84671.870	3.0	125443.580	4.0
245.1958	25.02	-4.91	135869.760	3.5	176641.140	3.5
245.1981	27.01	-3.08	24886.500	2.0	65657.500	1.0
245.1984	24.01	-.94	46823.640	.5	87594.600	1.5
245.2000	74.00	-.445	0.000	0.0	40783.034	0.0
245.2023	25.01	-1.21	43536.900	4.0	84307.200	4.0
245.2047	26.01	-8.60	23317.600	2.5	64087.500	2.5
245.2117	14.00	-3.08	223.157	2.0	40991.884	1.0
245.2162	28.01	-1.93	51557.850	3.5	92325.850	3.5
245.2162	25.01	-.57	65754.500	6.0	106522.500	6.0
245.2166	26.00	-3.74	12560.933	3.0	53328.870	4.0
245.2222	27.02	-1.07	86283.800	4.5	127050.800	4.5
245.2269	28.01	-3.69	93390.060	2.5	134156.280	1.5
245.2300	72.01	-.36	11856.655	0.0	52634.700	0.0
245.2314	25.02	-2.83	90936.220	1.5	131701.690	1.5
245.2324	25.01	.93	65754.500	6.0	106519.800	7.0
245.2357	26.00	-4.22	12968.552	2.0	53733.310	3.0
245.2366	25.01	-2.71	65754.500	6.0	106519.100	5.0
245.2432	25.01	-.63	48333.060	5.0	89096.560	4.0
245.2438	24.02	-4.01	119039.900	5.0	159803.300	4.0
245.2443	25.00	-2.32	27201.540	2.5	67964.870	2.5
245.2488	25.01	.80	38806.530	4.0	79569.100	5.0
245.2557	24.01	-2.91	33694.470	5.5	74455.900	4.5
245.2575	18.03	-1.94	250906.600	1.5	291667.730	2.5
245.2587	26.00	-.67	19788.248	4.0	60549.180	5.0
245.2592	27.01	-1.19	24267.800	1.0	65028.650	1.0
245.2601	13.01	-2.48	105424.300	0.0	146185.000	1.0
245.2614	24.01	-.83	46905.520	1.5	87666.000	2.5
245.2670	25.02	-3.18	135510.700	2.5	176270.250	2.5
245.2704	24.01	-.43	50667.330	3.5	91426.310	2.5
245.2743	18.01	-3.01	159393.310	1.5	200151.640	1.5
245.2810	77.00	-.21	2823.013	0.0	43592.579	0.0
245.2918	26.01	-1.26	31483.200	3.5	72238.630	2.5
245.2939	25.02	-3.42	135510.700	2.5	176265.780	1.5
245.2951	25.02	-3.83	135709.900	2.5	176464.780	3.5
245.2952	29.01	-2.32	88362.030	2.0	129116.900	3.0
245.3028	25.03	-4.49	152986.000	2.0	193739.600	2.0
245.3120	56.00	-3.76	0.000	0.0	40764.414	0.0
245.3134	25.01	.29	38806.530	4.0	79558.380	4.0
245.3140	75.00	-.36	16534.792	0.0	57298.874	0.0
245.3186	25.02	-4.09	135944.080	4.5	176695.060	4.5
245.3260	15.01	-2.67	65252.250	1.0	106001.990	1.0
245.3283	23.00	-5.59	2220.130	2.5	42969.490	1.5
245.3290	76.00	-.82	5726.684	0.0	46488.274	0.0
245.3303	27.01	-1.00	24267.800	1.0	65016.830	2.0
245.3340	72.01	.35	17260.709	0.0	58021.468	0.0
245.3350	23.01	-.89	14556.090	4.0	55304.340	4.0
245.3380	23.01	-3.73	14655.630	5.0	55403.380	6.0
245.3385	26.00	-1.44	7728.058	3.0	48475.740	3.0
245.3443	8.02	-1.11	398582.800	1.0	439329.500	2.0
245.3449	13.01	-2.60	105438.400	1.0	146185.000	1.0
245.3449	13.01	-2.13	105438.400	1.0	146185.000	2.0
245.3477	26.00	-1.13	7376.762	4.0	48122.913	3.0
245.3561	25.01	-3.90	48317.850	4.0	89062.600	5.0
245.3563	8.02	-1.62	329581.980	1.0	370326.700	0.0
245.3564	26.00	-.76	19621.004	5.0	60365.700	6.0
245.3621	25.01	-.44	38806.530	4.0	79550.280	3.0
245.3736	26.01	-.89	42237.050	3.5	82978.900	4.5
245.3782	26.01	-9.03	21308.080	1.5	62049.170	2.5
245.3795	26.01	-.89	21581.640	4.5	62322.500	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
245.3862	23.01	-2.46	23391.090	5.0	64130.840	4.0
245.3872	25.00	-1.25	25281.040	2.5	66020.630	2.5
245.3894	25.02	-2.71	94771.470	2.5	135510.700	2.5
245.3900	76.00	.42	8630.355	0.0	49381.812	0.0
245.3925	26.01	-.95	42114.790	.5	82853.500	.5
245.3927	24.01	-1.64	50687.630	2.5	91426.310	2.5
245.3950	41.01	.86	13631.121	0.0	54381.748	0.0
245.3959	24.00	-4.54	7593.160	2.0	48331.300	1.0
245.3980	26.01	-.15	44446.890	3.5	85184.690	4.5
245.3985	28.00	-1.10	2216.4519	2.0	42954.234	2.0
245.4062	24.01	-.32	39684.000	3.5	80420.430	2.5
245.4074	24.01	-3.92	30143.720	5.5	70879.950	5.5
245.4092	28.01	-3.92	92792.080	3.5	133528.020	3.5
245.4120	77.00	-.32	12824.546	0.0	53572.350	0.0
245.4165	26.01	-1.52	25787.600	1.5	66522.320	2.5
245.4209	27.01	-1.26	27469.200	5.0	68203.200	5.0
245.4221	8.02	-1.11	398544.300	2.0	439278.100	1.0
245.4260	18.01	-.57	161048.640	1.5	201781.790	2.5
245.4267	25.01	-1.64	31514.350	4.0	72247.380	3.0
245.4276	25.00	-2.15	25287.740	3.5	66020.630	2.5
245.4312	25.02	-2.22	135732.500	4.5	176464.780	3.5
245.4329	15.01	-3.95	88894.000	1.0	129626.000	1.0
245.4394	23.01	-2.27	11514.760	1.0	52245.680	2.0
245.4457	24.01	-2.83	33694.470	5.5	74424.350	6.5
245.4462	24.01	-1.02	30150.160	6.5	70879.950	5.5
245.4477	25.01	-3.69	48333.060	5.0	89062.600	5.0
245.4480	73.00	-.76	3871.561	0.0	44613.388	0.0
245.4521	15.01	-2.19	65273.180	2.0	106001.990	1.0
245.4576	26.01	.44	32875.630	6.5	73603.530	5.5
245.4582	26.01	-1.10	21430.390	5.5	62158.190	4.5
245.4613	24.01	-3.99	33694.470	5.5	74421.760	5.5
245.4652	18.02	.05	231341.800	2.0	272068.450	1.0
245.4662	23.01	-2.87	8841.970	3.0	49568.450	3.0
245.4700	73.01	.59	11695.340	0.0	52433.516	0.0
245.4710	74.00	.62	15002.299	0.0	55740.309	0.0
245.4723	8.01	-4.55	214169.740	.5	254895.200	1.5
245.4796	8.02	-2.88	327227.940	1.0	367952.200	1.0
245.4829	27.02	-3.19	86527.100	3.5	127050.800	4.5
245.4850	26.01	-8.56	23317.600	2.5	64040.960	3.5
245.4857	10.01	-1.92	280700.770	3.5	321424.010	4.5
245.4910	76.01	.68	3548.931	0.0	44283.622	0.0
245.4914	24.02	-3.77	71676.200	4.0	112398.500	

WAVELENGTH	ELEN	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEN	LOGGF	ELO	JLO	EUP	JUP
245.6509	25.01	-2.00	41190.470	6.0	81886.330	5.0	245.9317	25.03	-4.16	137930.100	5.0	178579.500	4.0
245.6510	23.01	-2.42	11908.270	2.0	52604.110	1.0	245.9334	26.01	-3.53	20340.360	5.5	60989.480	4.5
245.6523	23.02	-0.92	105282.650	2.5	145978.270	2.5	245.9341	17.01	-4.03	112608.000	1.0	153257.000	2.0
245.6530	33.00	-0.10	10808.108	0.0	51515.936	0.0	245.9355	24.01	-1.38	32836.840	3.5	73485.600	3.5
245.6530	74.00	-0.10	3306.958	0.0	44014.786	0.0	245.9358	23.01	-1.67	14655.630	5.0	55304.340	4.0
245.6540	25.01	-4.90	27589.030	2.0	68284.380	3.0	245.9365	25.01	-4.97	29869.110	2.0	70517.720	3.0
245.6542	8.02	-1.59	398582.800	1.0	439278.100	1.0	245.9402	11.02	.21	373633.000	1.5	414281.000	2.5
245.6583	18.01	-3.91	150474.900	1.5	191169.520	1.5	245.9411	24.00	-2.50	7810.820	1.0	48450.670	2.0
245.6592	26.02	-2.48	84159.550	4.0	124854.040	3.0	245.9447	26.01	-4.66	31483.200	3.5	72130.440	4.5
245.6608	23.01	-5.20	25191.080	2.0	65885.300	2.0	245.9467	27.01	-2.88	24267.800	1.0	64914.710	2.0
245.6642	26.01	-.83	32909.870	5.5	73603.530	5.5	245.9510	24.01	-3.36	25033.950	3.5	65680.150	4.5
245.6667	24.01	-4.37	48632.360	3.5	89325.600	4.5	245.9522	28.02	-3.11	97841.400	2.0	138487.000	3.0
245.6707	26.00	-2.05	12968.552	2.0	53661.130	3.0	245.9553	26.01	-.30	43620.980	1.5	84266.480	2.5
245.6784	9.03	-2.47	456884.300	1.0	497575.600	2.0	245.9578	25.01	-1.90	31661.720	3.0	72306.810	2.0
245.6814	24.02	-.73	56992.200	3.0	97683.000	3.0	245.9589	27.02	-3.30	85474.100	6.5	126119.000	7.5
245.6818	26.01	-.17	25981.650	3.5	66672.390	3.5	245.9593	18.01	-2.88	158167.710	1.5	198812.550	2.5
245.6874	25.00	-2.09	27201.540	2.5	67891.360	3.5	245.9613	27.02	-3.08	132489.000	2.5	173133.500	1.5
245.6917	9.03	.37	452517.100	3.0	493206.200	4.0	245.9640	25.01	-3.98	47073.560	3.0	87717.620	3.0
245.6918	24.01	-.87	46905.520	1.5	87594.600	1.5	245.9640	71.01	-.82	12340.601	0.0	52996.957	0.0
245.7030	77.00	-.49	5726.684	0.0	46426.228	0.0	245.9693	25.00	-1.09	25265.740	5.5	65908.920	4.5
245.7052	28.01	-2.89	74283.330	.5	114970.190	.5	245.9780	24.00	-4.02	20519.600	6.0	61161.350	5.0
245.7111	26.01	-3.92	27314.930	3.5	68000.820	4.5	245.9795	28.01	-3.58	74300.930	1.5	114942.420	1.5
245.7160	76.00	-.15	13308.491	0.0	54005.881	0.0	245.9819	13.01	-2.07	105467.700	2.0	146108.800	1.0
245.7195	13.01	-2.77	105424.300	0.0	146108.800	1.0	245.9840	76.00	-.57	5726.684	0.0	46379.735	0.0
245.7230	77.00	.09	12985.861	0.0	53682.092	0.0	245.9845	18.01	-4.86	154181.430	4.5	194822.100	3.5
245.7276	22.00	-5.96	6598.749	2.0	47281.900	3.0	245.9866	28.01	-4.06	77332.470	2.5	117972.470	3.5
245.7277	25.02	-1.70	90440.500	4.5	131123.640	5.5	245.9890	26.01	-3.11	20516.980	2.5	61156.900	3.5
245.7303	24.01	-4.33	48491.390	2.5	89174.100	3.5	245.9951	18.01	-1.39	159393.310	1.5	200032.230	1.5
245.7346	25.01	-3.92	41204.340	5.0	81886.330	5.0	245.9986	25.01	-3.62	30684.810	1.0	71323.150	2.0
245.7374	25.01	-.54	65482.660	3.0	106164.200	4.0	246.0040	28.01	-.83	72985.650	1.5	113623.100	.5
245.7415	25.00	-2.86	25281.040	2.5	65961.900	1.5	246.0042	24.00	-3.78	20523.940	5.0	52613.072	5.0
245.7429	25.02	-2.34	136796.610	2.5	177477.230	2.5	246.0077	26.00	-2.59	11976.239	4.0	40649.085	0.0
245.7440	40.01	-.91	4436.164	0.0	45128.917	0.0	246.0080	49.00	-1.46	0.000	0.0	0.000	0.0
245.7450	23.01	-3.10	14461.730	3.0	55142.010	3.0	246.0082	10.01	-4.40	280797.260	2.5	321434.020	1.5
245.7475	28.01	-3.63	93528.440	3.5	134208.300	2.5	246.0091	24.01	-.58	46905.520	1.5	87542.120	.5
245.7543	26.01	-.78	31364.470	1.5	72043.210	1.5	246.0101	25.02	-2.89	97023.800	3.5	137660.240	3.5
245.7583	24.01	-1.67	39742.360	2.5	80420.430	2.5	246.0101	25.02	-3.01	97271.760	5.5	137908.200	5.5
245.7588	26.01	-.35	44784.780	2.5	85462.780	3.5	246.0157	23.01	-3.36	23391.090	5.0	64026.600	4.0
245.7598	26.00	-.21	6928.266	5.0	47606.092	5.0	246.0160	74.00	-.20	6129.972	0.0	46777.735	0.0
245.7601	10.02	-.51	399082.570	1.0	439760.350	0.0	246.0162	26.01	-.75	45044.210	1.5	85679.640	2.5
245.7609	28.01	-3.72	75149.480	4.5	115827.120	3.5	246.0240	75.00	-.60	11534.025	0.0	52180.466	0.0
245.7684	15.01	-2.95	88894.000	1.0	129570.400	1.0	246.0249	30.02	-3.60	262235.800	3.0	70731.696	0.0
245.7767	8.02	-2.34	327277.180	2.0	367952.200	1.0	246.0257	26.00	-1.59	7728.058	3.0	48361.920	4.0
245.7783	26.01	-2.07	31368.450	.5	72043.210	1.5	246.0263	25.01	-1.42	53597.130	2.0	94230.900	2.0
245.7785	25.01	.05	65482.660	3.0	106157.400	3.0	246.0297	24.01	-4.24	30219.040	4.5	70852.240	3.5
245.7826	22.00	-.89	170.132	3.0	40844.190	3.0	246.0315	24.02	-4.94	112466.200	3.0	153099.100	4.0
245.7831	25.02	-1.16	90746.060	5.5	131420.030	6.5	246.0409	18.01	-4.37	161089.310	.5	201720.670	1.5
245.7865	28.01	-1.11	67694.640	2.5	108368.050	2.5	246.0422	24.01	-.94	32854.460	4.5	73485.600	3.5
245.7878	25.01	-.99	65846.610	7.0	106519.800	7.0	246.0448	22.00	-6.43	6556.828	1.0	47187.540	2.0
245.7908	30.02	-3.03	262235.800	3.0	302908.500	4.0	246.0453	26.01	.80	44232.510	4.5	84863.140	5.5
245.7910	28.01	-4.25	76402.030	2.5	117074.700	3.5	246.0460	24.01	-2.52	32855.090	2.5	73485.600	3.5
245.7926	17.01	-2.65	146469.000	3.0	187141.400	2.0	246.0474	16.02	-.70	170067.310	2.0	210697.600	2.0
245.7948	24.00	-3.10	20519.600	6.0	61191.640	6.0	246.0490	72.01	-4.13	2984.328	0.0	43626.639	0.0
245.7948	18.01	-2.08	161048.640	1.5	201720.670	1.5	246.0526	26.01	-1.71	68000.820	4.5	108630.240	5.5
245.7993	18.02	-.88	243424.970	3.0	284096.260	2.0	246.0550	73.00	-.20	9194.957	0.0	49836.277	0.0
245.8023	30.02	-1.51	216895.300	1.0	257566.100	1.0	246.0587	25.01	-5.06	29889.310	3.0	70517.720	3.0
245.8035	22.00	-.86	0.000	2.0	40670.600	2.0	246.0608	28.01	-4.75	95573.390	3.5	136201.460	3.5
245.8047	13.01	-2.29	105438.400	1.0	146108.800	1.0	246.0610	39.01	.21	24519.886	0.0	65160.215	0.0
245.8053	24.02	-4.81	116967.000	4.0	157637.300	3.0	246.0641	18.01	-2.33	163506.450	3.5	204133.980	2.5
245.8075	7.01	-4.47	170666.230	0.0	211336.160	1.0	246.0644	26.01	-.28	38214.500	1.5	78841.970	.5
245.8090	41.01	.83	14679.669	0.0	55361.662	0.0	246.0695	25.01	-.37	48435.960	6.0	89062.600	5.0
245.8116	28.01	-4.64	74300.930	1.5	114970.190	.5	246.0741	23.01	-2.96	9097.810	4.0	49723.680	4.0
245.8171	25.02	-1.45	97239.860	6.5	137908.200	5.5	246.0766	24.01	-.59	47040.540	2.5	87666.000	2.5
245.8210	24.00	-4.05	20523.940	5.0	61191.640	6.0	246.0780	10.02	-.74	399082.570	1.0	439707.810	1.0
245.8251	26.01	-8.56	21308.080	1.5	61975.110	1.5	246.0787	23.01	-7.72	25191.080	2.0	65816.200	1.0
245.8287	23.01	-1.34	11514.760	1.0	52181.180	1.0	246.0800	27.00	-.84	1809.330	1.5	42434.230	2.5
245.8323	25.00	-2.66	25281.040	2.5	65946.870	2.5	246.0812	17.01	-3.70	128621.900	1.0	169246.600	1.0
245.8330	8.01	-4.15	214229.480	1.5	254895.200	1.5	246.0814	24.00	-5.33	7593.160	2.0	48217.830	2.0
245.8343	10.01	-2.34	280768.520	.5	321434.020	1.5	246.0850	9.02	-4.45	417970.800	1.5	458594.860	2.5
245.8352	24.00	-3.02	20519.600	6.0	61184.950	5.0	246.0885	25.00	.01	25285.430	4.5	65908.920	4.5
245.8448	25.02	-4.08	97271.760	5.0	137935.530	4.5	246.0889	10.01	-3.27	280797.260	2.5	321420.690	2.5
245.8452	26.01	-2.53	62945.120	3.5	103608.820	4.5	246.0906	10.01	-3.13	280797.260	2.5	321420.410	1.5
245.8512	27.02	-2.81	131279.900	3.5	171942.600	4.5	246.0912	14.01	-2.04	81191.600	.5	121814.640	.5
245.8524	24.02	-2.85	71736.000	5.0	112398.500	4.0	246.0952	25.01	-3.90	44745.460	2.0	85367.850	2.0
245.8566	26.00	-3.33	6928.266	5.0	47590.070	4.0	246.0982	30.02	-1.80	217655.800	3.0	258277.700	3.0
245.8585	25.01	.99	65846.610	7.0	106508.100	8.0	246.1002	25.00	.15	25265.740	5.5	65887.310	5.5
245.8614	24.00	-4.12	20523.940	5.0	61184.950	5.0	246.1025	25.00	-2.29	25287.740	3.5	65908.920	4.5
245.8620	44.00	-.12	7420.492	0.0	48093.715	0.0	246.1040	45.01	.85	18389.915	0.0	59023.143	0.0
245.8621	24.0												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
246.1853	25.01	-1.09	32787.600	4.0	73395.120	3.0
246.1853	26.01	.41	25981.650	3.5	66589.170	4.5
246.1923	24.01	-2.03	36272.660	4.5	76879.030	3.5
246.1956	25.02	-1.80	135858.960	2.5	176464.780	3.5
246.2012	30.02	.26	217073.800	2.0	257678.700	2.0
246.2085	27.02	-4.63	128085.200	2.5	168688.900	2.5
246.2114	25.01	-.40	65565.680	4.0	106168.900	5.0
246.2153	14.02	-1.93	204330.790	2.0	244933.360	1.0
246.2158	27.02	-3.96	132592.400	1.5	173194.900	2.5
246.2171	24.00	-4.55	20520.920	3.0	61123.200	4.0
246.2182	26.00	-1.02	415.932	3.0	41018.029	2.0
246.2195	25.00	-2.32	25285.430	4.5	65887.310	5.5
246.2217	23.01	-3.11	13542.680	3.0	54144.200	4.0
246.2243	26.02	-3.61	142855.590	4.0	183456.690	3.0
246.2289	26.01	-2.87	31364.470	1.5	71964.810	2.5
246.2326	26.01	-.24	45079.910	2.5	85679.640	2.5
246.2339	24.00	-3.52	20523.690	4.0	61123.200	4.0
246.2344	24.01	-1.11	32836.840	3.5	73436.270	2.5
246.2348	10.02	.09	398986.640	2.0	439586.000	2.0
246.2360	77.00	-.31	12985.861	0.0	53597.307	0.0
246.2399	25.01	.08	65565.680	4.0	106164.200	4.0
246.2400	25.01	-5.11	29919.220	2.0	70517.720	3.0
246.2406	25.02	-1.00	97000.800	4.5	137599.200	3.5
246.2416	25.01	-1.98	41204.340	5.0	81802.580	6.0
246.2449	23.03	-1.42	223304.600	4.0	263902.300	3.0
246.2451	9.02	-.65	390834.600	2.5	431432.270	1.5
246.2485	9.03	-2.99	456884.300	1.0	497481.400	1.0
246.2564	30.02	-.75	216895.300	1.0	257491.100	0.0
246.2594	25.00	-2.69	23281.040	2.5	65876.340	3.5
246.2611	25.02	-3.22	135869.760	3.5	176464.780	3.5
246.2619	25.03	-4.41	131170.100	4.0	171765.000	4.0
246.2633	25.01	-3.56	43339.100	2.0	83933.770	3.0
246.2648	26.00	-.13	0.000	4.0	40594.413	4.0
246.2650	25.01	-4.73	30795.750	4.0	71390.140	3.0
246.2719	24.01	-4.30	33521.230	3.5	74114.480	3.5
246.2720	25.02	-3.80	138635.460	2.5	179228.990	1.5
246.2773	25.00	-.17	25281.040	2.5	65873.400	2.5
246.2790	74.00	-.51	1613.150	0.0	42217.505	0.0
246.2812	25.01	-.91	55655.680	4.0	106157.400	3.0
246.2834	24.01	-2.55	32844.920	1.5	73436.270	2.5
246.2861	25.00	-1.12	25285.430	4.5	65876.340	3.5
246.2890	41.00	-.06	2742.356	0.0	43345.063	0.0
246.2909	26.01	-6.82	21581.640	4.5	62171.760	3.5
246.2928	26.00	-7.58	7376.762	4.0	47966.571	3.0
246.2940	44.00	-.09	8469.040	0.0	49070.922	0.0
246.2946	23.02	-.58	56922.500	2.5	97512.000	1.5
246.2982	26.02	-1.96	83161.480	4.0	123750.390	3.0
246.2989	22.00	-5.91	6598.749	2.0	47187.540	2.0
246.2999	18.01	-1.87	159393.310	1.5	199981.960	1.5
246.3001	25.00	-.18	25287.740	3.5	65876.340	3.5
246.3005	25.02	-2.61	136888.700	1.5	177477.320	2.5
246.3029	24.01	-1.13	48749.570	.5	89337.700	1.5
246.3030	77.00	-.36	12098.628	0.0	52699.027	0.0
246.3061	24.00	-.07	7927.470	2.0	48515.080	3.0
246.3064	28.01	-4.46	99418.610	3.5	140006.170	4.5
246.3164	23.01	-3.14	14556.090	4.0	55142.010	4.0
246.3179	25.01	-2.66	31661.720	3.0	72247.380	3.0
246.3179	25.00	-1.07	25287.740	3.5	65873.400	2.5
246.3215	25.01	-2.95	53597.130	2.0	94182.200	3.0
246.3222	26.02	-3.24	84369.920	2.0	124954.880	1.0
246.3274	17.01	-3.14	128662.500	2.0	169246.600	1.0
246.3278	26.01	-.04	25428.800	5.5	66012.830	4.5
246.3292	30.02	-2.89	217655.800	3.0	258239.600	4.0
246.3310	75.00	-.37	13711.778	0.0	54307.562	0.0
246.3324	28.01	-3.06	93390.060	2.5	133973.330	2.5
246.3353	23.03	-3.81	217108.000	2.0	257690.800	3.0
246.3360	10.02	-.54	399125.120	0.0	439707.810	1.0
246.3391	25.02	-4.05	138234.790	1.5	178816.960	2.5
246.3414	22.01	-3.91	0.000	1.5	40581.800	2.5
246.3451	24.01	-1.41	32855.090	2.5	73436.270	2.5
246.3451	24.01	-1.61	30298.770	5.5	70879.950	5.5
246.3491	24.00	-3.23	7750.780	0.0	48331.300	1.0
246.3502	26.01	-2.33	38858.960	2.5	79439.300	3.5
246.3627	27.01	-.89	11651.310	2.0	52229.600	2.0
246.3640	25.02	-2.34	135692.170	3.5	176270.250	2.5
246.3675	30.02	-.25	220006.600	1.0	260584.100	1.0
246.3715	26.01	-.70	31387.980	2.5	71964.810	2.5
246.3732	26.00	-1.47	7728.058	3.0	48304.623	2.0
246.3732	26.01	-1.32	21581.640	4.5	62158.190	4.5
246.3735	26.00	.33	19788.248	4.0	60364.760	3.0
246.3738	26.01	-2.23	20516.980	2.5	61093.440	2.5
246.3777	27.00	-1.63	1406.840	2.5	41982.660	1.5
246.3796	9.03	.02	451819.600	1.0	492395.100	2.0
246.3802	25.02	-4.21	97023.800	3.5	137599.200	3.5
246.3809	23.03	-.49	223033.000	3.0	263608.300	3.0
246.3820	73.01	1.13	12340.601	0.0	52927.982	0.0
246.3954	22.01	-2.85	225.470	3.5	40798.370	3.5
246.3970	72.01	-.01	12824.546	0.0	53409.456	0.0
246.3972	30.02	-4.91	262235.800	3.0	302808.400	4.0
246.3988	7.01	-1.37	189335.160	3.0	229907.500	4.0
246.4006	26.01	.01	25805.320	4.5	66377.370	3.5
246.4096	23.01	-1.97	8640.210	2.0	49210.780	3.0
246.4190	72.01	.46	8307.725	0.0	48889.011	0.0
246.4197	27.01	-.47	9812.700	4.0	50381.600	3.0
246.4252	18.02	-.23	226503.220	3.0	267071.220	4.0
246.4309	25.01	-3.11	32818.100	0.0	73385.150	1.0
246.4310	74.00	-.56	3306.958	0.0	43886.268	0.0
246.4311	24.01	-1.64	32844.920	1.5	73411.940	1.5
246.4427	26.02	-3.63	76956.790	3.0	117521.910	4.0
246.4434	27.02	-2.75	86327.100	3.5	126892.100	3.5
246.4458	27.00	-1.63	8460.810	2.5	49025.420	1.5
246.4465	17.01	-1.70	146333.800	2.0	186898.300	3.0
246.4490	70.00	-.62	0.000	0.0	40576.346	0.0
246.4500	76.00	.21	12663.231	0.0	53239.413	0.0
246.4552	14.01	-1.74	81251.580	1.5	121814.640	.5
246.4566	25.01	-4.85	40759.500	0.0	81322.330	1.0
246.4613	27.00	-1.52	1406.840	2.5	41968.890	2.5
246.4616	27.02	-4.02	91715.100	2.5	132277.100	3.5
246.4631	24.01	-1.49	32844.920	1.5	73406.680	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
246.4633	25.02	-1.63	100001.300	2.5	140563.030	3.5
246.4650	23.01	-3.17	8640.210	2.0	49201.660	2.0
246.4660	26.02	-3.16	82382.870	3.0	122944.150	4.0
246.4680	9.01	-4.61	236960.830	1.0	277521.780	2.0
246.4684	24.00	-4.94	20517.400	2.0	61078.280	3.0
246.4686	18.02	-.35	231627.300	1.0	272188.160	2.0
246.4700	44.00	.04	7985.094	0.0	48557.983	0.0
246.4717	25.02	-1.48	135709.900	2.5	176270.250	2.5
246.4738	23.03	-1.07	223033.000	3.0	263593.000	2.0
246.4757	25.01	-2.55	31760.930	2.0	72320.620	1.0
246.4762	28.02	-2.99	71841.900	1.0	112401.500	1.0
246.4764	25.01	-3.51	32836.400	1.0	73395.970	2.0
246.4766	9.01	-3.98	236960.830	1.0	277520.380	1.0
246.4884	27.02	-2.97	130909.000	1.5	171466.600	2.5
246.4884	27.02	-2.97	130909.000	1.5	171466.600	2.5
246.4898	24.00	-3.75	20520.920	3.0	61078.280	3.0
246.4899	26.01	.01	26055.400	2.5	66612.740	1.5
246.4900	77.00	-.38	11775.998	0.0	52345.595	0.0
246.4929	24.01	-1.28	32855.090	2.5	73411.940	1.5
246.4977	22.00	-.37	0.000	2.0	40556.070	1.0
246.4988	25.02	-4.38	135709.900	2.5	176265.780	1.5
246.5060	72.01	.19	15002.299	0.0	55569.263	0.0
246.5090	77.00	-.14	12985.861	0.0	53552.331	0.0
246.5099	24.01	-.32	47040.540	2.5	87594.600	1.5
246.5115	9.03	-.58	542681.200	2.0	583235.000	3.0
246.5130	75.00	-.21	16534.792	0.0	57100.604	0.0
246.5150	26.00	-.18	7376.762	4.0	47929.981	4.0
246.5197	26.01	-.24	22409.820	.5	62962.260	1.5
246.5200	74.00	.05	16857.422	0.0	57422.082	0.0
246.5260	73.00	-.66	5565.369	0.0	46129.042	0.0
246.5262	28.00	-1.77	2216.519	2.0	42767.900	3.0
246.5270	23.01	-.80	14655.630	5.0	55206.870	5.0
246.5281	26.00	.46	19621.004	5.0	60172.060	4.0
246.5422	25.01	-2.92	32836.400	1.0	73385.150	1.0
246.5427	26.02	-3.35	142908.480	5.0	183457.150	4.0
246.5436	25.02	-3.57	136421.500	5.5	176970.010	5.5
246.5442	25.02	-1.74	94697.850	3.5	135246.270	2.5
246.5495	28.01	-.78	58493.210	2.5	99040.750	1.5
246.5510	26.01	-4.10	20340.360	5.5	60887.660	5.5
246.5596	24.01	-.52	39742.360	2.5	80288.250	1.5
246.5596	25.01	-2.78	31760.930	2.0	72306.810	2.0
246.5638	28.02	-2.42	75646.900	4.0	116192.100	4.0
246.5670	72.00	-.87	4516.821	0.0	45073.749	0.0
246.5723	27.02	-3.01	86327.100	3.5	126870.900	2.5
246.5762	24.01	-1.66	39877.280	3.5	80420.430	2.5
246.5887	27.02	-2.84	132592.400	1.5	173133.500	1.5
246.5897	24.00	-2.93	8095.210	3.0	48636.140	3.0
246.5912	14.02	-2.24	204330.790	2.0	244871.470	1.0
246.5913	26.01	.05	25981.650	3.5	66522.320	2.5
246.5935	28.01	-2.49	77332.470	2.5	117872.780	2.5
246.5987	23.02	-2.20	105282.650	2.5	145822.110	1.5
246.6006	22.00	.64	6742.757	4.0	47281.900	3.0
246.6013	25.01	-2.01	32856.950	3.0	73395.970	2.0
246.6065	25.01	-1.76	32856.950	3.0	73395.120	3.0
246.6088	24.02	-3.56	113955.700	2.0	153893.500	2.0
246.6109	18.01	-3.62	150474.900	1.5	191012.350	1.5
246.6128	25.01	-2.37	32858.840	2.0	73395.970	2.0
246.6130	90.01	-.58	4032.876	0.0	44582.239	0.0
246.6144	28.01	-4.87	96052.480	2.5	136589.350	3.5
246.6157	9.01	-1.05	215069.150	2.0	255606.240	1.0
246.6170	26.00	.58	19390.565	6.0	59926.620	5.0
246.6174	24.01	-1.09	47464.940	4.5	88001.320	5.5
246.6180	25.01	-3.04	32858.840	2.0	73395.120	3.0
246.6214	25.01	-.45	33147.390	5.0	73663.110	4.0
246.6228	24.01	-1.71	30143.720	5.5	70679.220	4.5
246.6246	23.01	-4.62	13609.000	4.0	54144.200	4.0
246.6319	26.02	-2.02	84369.920	2.0	124903.920	2.0
246.6328	28.01	-2.31	68735.980	2.5	109269.830	1.5
246.6397	24.00	-3.96	20523.990	4.0	61056.410	4.0
246.6411	25.01	-.62	33248.320	4.0	73780.810	3.0
246.6412	24.00	-3.13	20523.940	5.0	61056.410	4.0
246.6428	25.01	-4.69	53698.700	2.0	94230.900	2.0
246.6470	28.01	-1.84	72375.420	1.5	112906.930	1.5
246.6478	24.01	-.28	47227.500	3.5	87758.880	3.5
246.6489	24.00	-2.80	7927.470	2.0	48458.670	2.0
246.6500	7.01	-3.87	170572.610	2.0	211103.630	3.0
246.6501	17.01	-1.76	146330.000	1.0	186861.000	2.0
246.6503	24.01	-1.16	46823.640	.5	87354.620	1.5
246.6520	74.01	.15	1451.835	0.0	41994.786	0.0
246.6538	28.02	-2.42	71383.700	2.0	11914.100	2.0
246.6540	26.00	-1.56	7985.783	2.0	48516.150	1.0
246.6668	26.01	-.24	23031.300	1.5	63559.560	.5
246.6680	42.01	.19	22745.421	0.0	63285.742	0.0
246.6730	41.00	-.37	2742.356	0.0	43281.856	0.0
246.6733	17.01	-1.11	146333.000	2.0	186861.000	2.0
246.6761	26.01	.08	38164.240	2.5	78690.980	2.5
246.6763	28.02	-2.69	79143.300	2.0	119670.000	2.0
246.6773	22.00	-6.47	6661.003	3.0	47187.540	2.0
246.6787	25.01	-3.23	32858.840	2.0	73385.150	1.0
246.6816	26.01	-.08	22939.350	2.5	63465.190	1.5
246.6830	27.02	-3.39	132277.100	3.5	172802.700	2.5
246.6850	74.00	.13	3306.958	0.0	43844.486	0.0
246.6879	26.01	-4.59	20516.980	2.5	61041.780	2.5
246.6901	26.00	-2.97	6928.266	5.0	47452.702	4.0
246.6927	24.01	-1.30	48399.190	1.5	88923.200	2.5
246.6946	24.02	-4.62	117145.200	5.0	157668.900	6.0
246.6958	28.00	-1.84	3409.925	2.0	43933.428	2.0
246.6970	42.01	.04	16696.017	0.0	57231.663	0.0
246.6984	25.01	-1.40	49427.320	4.0	89950.400	3.0
246.6990	73.01	-.11	967.890	0.0	41503.117	0.0
246.7001	26.02	-3.82	142908.480	5.0	183431.280	5.0
246.7019	30.02	.67	217655.800	3.0	258178.300	4.0
246.7025	29.02	-2.74	153808.400	4.5	194330.800	5.5
246.7032	24.01	-3.00	30156.940	3.5	70679.220	4.5
246.7037	27.01	-.41	24886.500	2.0	65408.710	2.0
246.7077	18.02	-.41	226355.960	2.0	266877.500	3.0
246.7116	25.02	-4.47	135869.760	3.5	176390.670	2.5
246.7128	25.02	-3.77	135944.080	4.5	176464.780	3.5
246.7142	24.00	-3.28	7810.820	1.0	48331.300	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
246.7152	24.01	-0.81	48749.570	0.5	89269.880	0.5	247.0040	42.01	0.03	23713.311	0.0	64198.485	0.0
246.7275	9.02	-1.77	349007.250	2.5	389525.550	1.5	247.0053	25.02	-2.94	136796.610	2.5	177269.340	1.5
246.7300	77.00	-1.10	4032.876	0.0	44563.010	0.0	247.0056	26.02	-3.40	89783.590	4.0	130256.270	5.0
246.7305	23.03	-0.55	223304.600	4.0	263822.400	4.0	247.0180	23.01	-0.03	9097.810	4.0	49568.450	3.0
246.7351	26.02	-0.83	147614.650	2.0	188131.700	1.0	247.0232	24.02	-2.65	56650.500	2.0	97120.300	3.0
246.7370	73.01	0.47	5565.369	0.0	46094.353	0.0	247.0257	25.02	-3.59	136500.630	6.5	176970.010	5.5
246.7417	26.02	-3.67	82382.870	3.0	122898.840	2.0	247.0266	27.00	-0.43	3482.820	4.5	43952.060	5.5
246.7431	18.01	-0.16	155351.030	1.5	195866.760	1.5	247.0285	24.01	-0.66	49006.150	1.5	89475.080	2.5
246.7440	78.00	-0.60	0.000	0.0	40527.835	0.0	247.0286	20.02	-1.06	290934.300	0.0	331403.200	1.0
246.7488	9.01	-3.36	256262.460	1.0	296777.250	2.0	247.0328	25.00	-2.24	23296.670	3.5	63764.900	2.5
246.7518	17.01	-1.35	146330.000	1.0	186844.300	1.0	247.0340	25.01	-2.16	44899.820	3.0	85367.850	2.0
246.7560	18.01	-3.47	155351.030	1.5	195864.640	2.5	247.0357	18.01	-3.54	150474.900	1.5	190942.650	2.5
246.7570	75.01	0.84	14840.984	0.0	55366.683	0.0	247.0390	45.00	-0.84	3226.301	0.0	43705.739	0.0
246.7626	26.02	-2.65	83237.860	3.0	123750.390	3.0	247.0402	9.03	-1.24	416417.300	0.0	456884.300	1.0
246.7647	28.01	-2.94	77736.790	4.5	118248.980	5.5	247.0404	22.00	-3.75	0.000	2.0	40466.979	2.0
246.7683	25.01	-0.45	65658.300	5.0	106169.900	6.0	247.0406	24.00	0.12	8095.210	3.0	48562.160	4.0
246.7685	27.00	-0.80	1406.840	2.5	41918.410	3.5	247.0407	26.01	-3.30	20340.360	5.5	60807.280	4.5
246.7733	26.00	-1.13	7728.058	3.0	48238.832	2.0	247.0407	26.01	-3.39	26055.400	2.5	66522.320	2.5
246.7744	25.01	0.19	65658.300	5.0	106168.900	5.0	247.0426	28.01	-2.95	54262.630	3.5	94729.250	2.5
246.7750	17.01	-2.20	146333.800	2.0	186844.300	1.0	247.0430	75.01	0.81	20325.695	0.0	60801.529	0.0
246.7754	26.02	-0.12	82410.940	2.0	122921.370	1.0	247.0435	26.01	0.05	22810.330	3.5	63273.030	2.5
246.7756	12.02	-0.69	426868.100	1.0	467378.500	1.0	247.0435	30.02	-0.63	262446.100	3.0	302908.500	4.0
246.7834	24.01	-5.61	25033.950	3.5	65543.060	3.5	247.0737	10.01	-1.69	280947.100	1.5	321408.620	2.5
246.7839	25.01	-1.69	49291.310	3.0	89800.340	4.0	247.0765	26.01	-0.97	25787.600	1.5	66248.670	0.5
246.7850	75.01	0.91	26616.982	0.0	67138.083	0.0	247.0800	74.01	1.06	20648.325	0.0	61121.046	0.0
246.7917	24.01	-1.00	46905.520	1.5	87413.270	2.5	247.0819	24.01	-1.48	30219.040	4.5	70679.220	4.5
246.7970	72.01	-1.01	0.000	0.0	40519.131	0.0	247.0820	24.01	-1.37	47227.500	3.5	87667.660	4.5
246.7971	25.01	-0.80	33278.390	3.0	73785.250	2.0	247.0838	26.01	-0.78	21711.890	3.5	62171.760	3.5
246.7983	25.01	-2.52	47073.560	3.0	87580.230	4.0	247.0872	26.02	-2.23	83237.860	3.0	123697.180	2.0
246.8000	29.02	-0.19	153609.200	3.5	194115.600	3.5	247.0875	24.00	-1.07	7750.780	0.0	48210.040	1.0
246.8020	49.00	-1.50	2177.753	0.0	42696.063	0.0	247.0900	73.01	1.00	6129.722	0.0	46601.055	0.0
246.8030	25.01	-0.71	65658.300	5.0	106164.200	4.0	247.0966	26.00	-0.98	7376.762	4.0	47834.529	5.0
246.8090	76.00	-0.17	10082.190	0.0	50599.351	0.0	247.0983	26.00	-5.84	7376.762	4.0	47834.529	5.0
246.8150	90.01	-0.79	4113.534	0.0	44629.710	0.0	247.0994	22.00	-0.09	386.874	4.0	40844.190	3.0
246.8176	26.01	-3.67	3117.480	1.5	43620.980	1.5	247.1001	27.01	-1.57	25147.200	4.0	65604.400	3.0
246.8181	10.02	-0.39	399082.570	1.0	439586.000	2.0	247.1010	78.00	-0.38	13389.148	0.0	53858.430	0.0
246.8194	26.01	-1.56	33466.500	4.5	73969.710	5.5	247.1050	75.01	0.56	19035.175	0.0	59503.802	0.0
246.8220	64.01	0.25	8469.040	0.0	48984.067	0.0	247.1079	9.02	-0.74	390976.350	1.5	431432.270	1.5
246.8242	25.01	-2.03	33278.390	3.0	73780.810	3.0	247.1117	27.01	-1.75	27484.300	3.0	67939.600	2.0
246.8249	26.01	-1.70	20830.520	2.5	61332.820	1.5	247.1120	23.01	-1.42	12621.570	5.0	53076.820	6.0
246.8272	23.02	-1.45	105320.180	1.5	145822.110	1.5	247.1123	17.02	-0.61	202367.600	3.5	242822.800	2.5
246.8290	26.01	-3.58	62083.170	4.5	102584.810	5.5	247.1142	25.02	-2.95	90440.500	4.5	130895.390	4.5
246.8296	26.01	-0.92	21581.640	4.5	62083.170	4.5	247.1169	25.01	-1.74	48317.850	4.0	88772.300	5.0
246.8358	18.02	-0.82	231627.300	1.0	272127.820	1.0	247.1187	25.02	-2.32	138362.800	3.5	178816.960	2.5
246.8361	22.00	-0.25	170.132	3.0	40670.600	2.0	247.1210	74.00	-0.04	17018.737	0.0	57484.744	0.0
246.8410	73.01	0.79	15728.216	0.0	56240.124	0.0	247.1241	25.01	-3.88	29889.310	3.0	70342.580	3.0
246.8426	22.01	-2.61	12628.770	1.5	53128.170	1.5	247.1279	26.01	-0.58	44232.510	4.5	84685.160	3.5
246.8451	17.02	-0.96	201073.400	0.5	241572.400	1.5	247.1374	26.01	-1.13	36126.410	1.5	76577.500	0.5
246.8501	29.01	-1.21	69867.810	2.0	110365.980	2.0	247.1443	23.00	-2.02	137.380	2.5	40587.350	3.5
246.8556	23.02	-4.86	106903.350	5.5	147400.620	4.5	247.1470	45.00	-0.86	2581.041	0.0	43042.790	0.0
246.8558	26.01	-2.01	20340.360	5.5	60837.590	6.5	247.1490	25.01	-3.97	53781.700	3.0	94230.900	2.0
246.8632	24.01	-3.54	25047.040	2.5	65543.060	3.5	247.1496	24.01	-0.70	46905.520	1.5	87354.620	1.5
246.8658	23.01	-1.95	9097.810	4.0	49593.410	5.0	247.1580	64.01	0.03	8791.670	0.0	49251.619	0.0
246.8673	24.01	-1.90	33619.130	4.5	74114.480	3.5	247.1597	38.01	-1.07	24516.650	0.0	64976.320	0.0
246.8706	18.02	0.06	243424.970	3.0	283919.780	3.0	247.1644	26.02	-1.67	82382.870	3.0	122829.950	3.0
246.8780	42.01	0.20	23713.311	0.0	64219.148	0.0	247.1667	26.01	-1.95	21711.890	3.5	62158.190	4.5
246.8810	27.02	-2.39	131883.900	2.5	172377.000	3.5	247.1736	18.01	-0.94	159706.460	0.5	200151.640	1.5
246.8834	22.01	-5.76	12628.770	1.5	53121.480	0.5	247.1753	28.01	-3.28	93528.440	3.5	133973.330	2.5
246.8859	30.02	-0.15	217073.800	2.0	257566.100	1.0	247.1778	10.01	-2.22	260989.530	1.5	321434.020	1.5
246.8880	26.00	-1.47	6928.266	5.0	47420.215	5.0	247.1893	28.02	-2.33	78303.100	2.0	118745.700	3.0
246.8890	11.02	-0.12	374681.400	0.5	415173.200	1.5	247.1900	57.01	-0.64	5162.081	0.0	45616.792	0.0
246.8900	76.01	1.44	11372.710	0.0	51876.578	0.0	247.1970	42.00	0.09	10646.793	0.0	51100.358	0.0
246.8922	29.01	-3.14	88362.030	2.0	128853.300	2.0	247.1982	18.02	-0.20	231627.300	1.0	272068.450	1.0
246.8932	28.02	-1.94	97996.300	3.0	138487.400	3.0	247.1997	24.01	-3.21	64924.300	3.5	105365.200	4.5
246.8977	24.01	-1.00	46823.640	0.5	87314.000	0.5	247.2062	26.01	-3.41	20516.980	2.5	60956.820	3.5
246.9002	26.00	-1.72	7985.783	2.0	48475.740	3.0	247.2064	28.00	-0.96	2216.519	2.0	42656.317	1.0
246.9005	27.02	-3.88	131887.100	4.5	172377.000	3.5	247.2069	26.01	-1.16	21711.890	3.5	62151.610	2.5
246.9080	41.00	-0.23	2097.096	0.0	42598.011	0.0	247.2099	25.01	-2.34	48333.060	5.0	88772.300	5.0
246.9093	24.00	-4.37	20519.600	6.0	61008.070	5.0	247.2130	73.00	-0.71	3871.561	0.0	44322.508	0.0
246.9121	24.01	-0.34	30391.940	6.5	70879.950	5.5	247.2144	24.01	-0.20	47227.500	3.5	87666.000	2.5
246.9127	26.02	-1.75	82410.940	2.0	122898.840	2.0	247.2210	23.00	-1.94	0.000	1.5	40437.420	1.5
246.9130	27.01	-2.79	46452.600	2.0	86940.460	2.0	247.2223	28.00	-1.73	2216.519	2.0	42653.723	2.0
246.9130	22.01	-2.70	93.940	2.5	40581.800	2.5	247.2254	28.02	-3.84	76237.800	3.0	116674.500	4.0
246.9144	26.01	0.16	43238.610	2.5	83726.240	3.5	247.2258	24.00	-4.23	20523.940	5.0	60960.580	4.0
246.9180	72.01	0.50	13389.148	0.0	53888.423	0.0	247.2275	23.01	-3.41	13490.840	2.0	53927.190	3.0
246.9187	9.02	-2.54	389525.550	1.5	430012.480	1.5	247.2278	28.01	-3.22	76402.030	2.5	116838.330	1.5
246.9187	10.01	-2.28	280947.100	1.5	321434.020	1.5	247.2280	76.00	-0.16	5726.684	0.0	46175.177	0.0
246.9210	26.02	-3.81	97041.380	3.0	137527.920	4.0	247.2295	24.01	-3.53	50667.330	3.5	9	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
247.2884	24.02	-2.26	56650.500	2.0	97076.900	1.0
247.2896	26.00	.03	415.932	3.0	40842.130	3.0
247.2920	27.00	-1.93	4142.660	3.5	44568.470	2.5
247.2921	22.01	-2.80	0.000	1.5	40425.800	1.5
247.2960	18.02	.32	226646.060	4.0	267071.220	4.0
247.2970	13.01	-2.11	106918.200	1.0	147343.200	2.0
247.3034	26.01	-1.30	44466.890	3.5	84870.840	2.5
247.3034	9.02	-4.67	426558.910	1.5	466982.860	2.5
247.3070	25.01	-2.62	29919.220	2.0	70342.580	3.0
247.3088	28.01	-1.69	72985.650	1.5	113408.710	1.5
247.3090	45.00	-1.84	1451.835	0.0	41887.080	0.0
247.3130	73.00	-1.61	3871.561	0.0	44306.152	0.0
247.3137	28.01	-1.20	14995.570	2.5	55417.830	3.5
247.3160	26.00	-2.09	0.000	4.0	40421.890	4.0
247.3165	9.02	-4.87	417970.800	1.5	458392.610	1.5
247.3174	28.01	-1.47	72985.650	1.5	113407.310	2.5
247.3200	56.00	-2.81	0.000	0.0	40433.447	0.0
247.3281	30.02	.43	217655.800	3.0	258075.700	3.0
247.3283	24.00	-1.43	8095.210	3.0	48515.080	3.0
247.3310	73.01	.27	4355.506	0.0	44787.154	0.0
247.3316	26.01	-1.22	22409.820	.5	62829.160	.5
247.3322	9.02	-4.51	426558.910	1.5	466978.150	1.5
247.3331	10.01	-2.43	280989.530	1.5	321408.620	2.5
247.3334	29.01	-1.58	67916.390	1.0	108335.430	2.0
247.3338	26.01	-2.12	26170.190	5.5	66589.170	4.5
247.3360	26.02	-2.33	82410.940	2.0	122829.550	3.0
247.3420	25.01	-2.94	43850.420	2.0	84268.060	1.0
247.3420	9.01	-2.06	246283.630	2.0	286701.280	2.0
247.3446	28.01	-2.96	92792.080	3.5	133209.300	2.5
247.3548	24.00	-2.48	7810.820	1.0	48226.360	0.0
247.3557	25.01	.34	65754.500	6.0	106169.900	6.0
247.3610	7.01	-1.48	189335.160	3.0	229749.700	4.0
247.3618	25.01	-1.65	65754.500	6.0	106168.900	5.0
247.3659	7.01	-2.32	189335.160	3.0	229748.900	3.0
247.3690	74.00	-1.03	14840.984	0.0	55266.421	0.0
247.3692	25.01	-1.67	65754.500	6.0	106167.700	7.0
247.3710	25.02	-1.54	97023.800	3.5	137436.700	4.5
247.3728	30.02	-3.26	262495.900	4.0	302908.500	4.0
247.3796	30.02	-1.90	220006.600	1.0	260418.100	2.0
247.3808	25.02	-1.99	135858.960	2.5	176270.250	2.5
247.3902	27.00	-1.04	816.000	3.5	41225.760	4.5
247.3920	72.01	.13	12824.546	0.0	53246.225	0.0
247.3953	25.02	-2.64	135861.320	1.5	176270.250	2.5
247.3981	24.01	-2.31	46905.520	1.5	87314.000	.5
247.3995	18.01	-2.41	158730.210	2.5	199138.450	1.5
247.4005	10.01	-3.60	281025.940	2.5	321434.020	1.5
247.4040	44.00	-1.25	9517.587	0.0	49937.305	0.0
247.4071	24.00	-1.73	7810.820	1.0	48217.830	2.0
247.4082	25.02	-3.54	135858.960	2.5	176265.780	1.5
247.4131	25.01	-2.04	67766.510	2.0	108172.540	1.0
247.4150	74.00	.42	6129.972	0.0	46547.893	0.0
247.4184	22.01	-1.95	393.220	4.5	40798.370	3.5
247.4185	25.02	-3.67	137282.400	2.5	177687.540	3.5
247.4211	25.01	-4.41	33278.390	3.0	73683.110	4.0
247.4222	28.00	-3.09	2216.519	2.0	42621.048	3.0
247.4227	25.02	-2.62	135861.320	1.5	176265.780	1.5
247.4257	26.02	-2.43	82494.880	1.0	122898.840	2.0
247.4259	25.01	-4.35	67766.510	2.0	108170.450	2.0
247.4265	24.00	-2.89	7927.470	2.0	48331.300	1.0
247.4313	12.01	-3.51	69804.950	.5	110207.990	1.5
247.4341	23.01	-7.06	13741.610	3.0	54144.200	4.0
247.4459	26.01	-2.91	2837.940	2.5	43238.610	2.5
247.4469	25.01	-3.07	53781.700	3.0	94182.200	3.0
247.4470	25.02	-3.55	135869.760	3.5	176270.250	2.5
247.4497	26.02	-4.38	160037.900	2.0	200437.940	2.0
247.4548	24.00	-1.15	7810.820	1.0	48210.040	1.0
247.4570	51.00	-1.06	18309.257	0.0	58720.318	0.0
247.4583	12.01	-3.81	69804.950	.5	110203.580	.5
247.4620	73.00	-1.25	1935.780	0.0	42346.025	0.0
247.4627	26.01	-3.39	44446.890	3.5	84844.810	2.5
247.4641	26.02	-3.93	142047.000	4.0	182444.700	3.0
247.4692	25.01	-3.50	43536.900	4.0	83933.770	3.0
247.4702	11.02	-1.30	366165.300	2.5	406562.000	1.5
247.4730	75.00	-1.16	14921.641	0.0	55330.090	0.0
247.4762	26.01	-1.50	25981.650	3.5	66377.370	3.5
247.4780	76.00	.13	8630.355	0.0	49037.987	0.0
247.4799	26.02	-4.46	139509.440	5.0	179904.560	6.0
247.4815	26.00	-1.31	7728.058	3.0	48122.913	3.0
247.4821	10.01	-3.62	281025.940	2.5	321420.690	2.5
247.4838	10.01	-3.28	281025.940	2.5	321420.410	1.5
247.4849	28.01	-1.51	68154.310	1.5	108548.610	1.5
247.4906	25.01	-2.06	30684.810	6.0	71078.180	1.0
247.4968	25.01	-1.77	38720.200	6.0	79112.560	5.0
247.4990	17.01	-2.45	146469.000	3.0	186861.000	2.0
247.5020	26.02	-4.12	83358.880	2.0	123750.390	3.0
247.5024	25.02	-3.10	91906.100	2.5	132297.550	2.5
247.5060	3.00	-2.42	0.000	0.0	40403.061	0.0
247.5120	77.00	-1.03	0.000	0.0	40402.082	0.0
247.5125	26.01	.37	45289.840	1.5	85679.640	2.5
247.5170	75.01	.99	23713.311	0.0	64114.576	0.0
247.5302	9.03	-1.09	460215.200	0.0	506602.100	1.0
247.5330	73.00	-1.09	9678.902	0.0	50077.556	0.0
247.5410	44.00	.10	7420.492	0.0	47817.840	0.0
247.5435	9.02	-1.00	391047.540	.5	431432.270	1.5
247.5445	22.00	-1.15	0.000	2.0	40384.580	1.0
247.5449	23.01	-1.65	13542.680	3.0	53927.190	3.0
247.5459	18.01	-1.44	160239.350	1.5	200623.700	.5
247.5475	25.01	-1.12	43528.300	5.0	83912.380	5.0
247.5485	24.00	-3.96	20520.920	3.0	60904.840	3.0
247.5492	26.00	-1.93	19788.248	4.0	60172.060	4.0
247.5550	26.01	.46	45079.910	2.5	85462.780	2.5
247.5561	10.01	-2.30	281025.940	2.5	321408.620	3.5
247.5572	10.01	-2.61	281025.940	2.5	321408.440	3.5
247.5640	45.01	.27	31537.090	0.0	71930.685	0.0
247.5642	24.00	-4.76	7593.160	2.0	47974.530	3.0
247.5644	25.02	-2.95	71395.270	.5	111776.600	1.5
247.5655	24.00	-3.26	20523.690	4.0	60904.840	3.0
247.5686	25.02	-2.51	136888.700	1.5	177269.340	1.5
247.5690	76.00	-1.10	11292.053	0.0	51684.832	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
247.5698	24.01	-1.40	30298.770	5.5	70679.220	4.5
247.5719	8.02	-1.49	398137.400	3.0	438517.500	4.0
247.5725	10.01	-1.99	281025.940	2.5	321405.950	3.5
247.5858	28.01	-1.76	92792.080	3.5	133169.920	3.5
247.5861	23.01	-1.56	13490.840	2.0	53868.630	2.0
247.5874	25.02	-2.71	90746.060	5.5	131123.640	5.5
247.5946	25.01	-4.07	53805.800	4.0	94182.200	3.0
247.6003	25.01	-1.72	43536.900	4.0	83912.380	5.0
247.6055	27.01	-2.04	45972.100	3.0	86346.730	3.0
247.6076	18.02	-1.08	226503.220	3.0	266877.500	3.0
247.6087	24.02	-4.34	113355.700	2.0	153729.800	1.0
247.6100	30.02	-4.59	262495.900	4.0	302869.800	3.0
247.6154	25.01	-4.09	49427.320	4.0	89800.340	4.0
247.6154	18.02	-1.68	231754.800	0.0	272127.820	1.0
247.6171	24.01	-1.45	47040.540	2.5	87413.270	2.5
247.6235	26.02	-1.93	142047.000	4.0	182418.700	4.0
247.6260	26.01	-1.18	21711.890	3.5	62083.170	4.5
247.6280	75.00	-1.67	11534.025	0.0	51917.180	0.0
247.6298	23.01	-1.97	12706.150	6.0	53076.820	6.0
247.6302	13.01	-2.45	106918.200	1.0	147288.800	0.0
247.6338	22.01	-3.65	12758.150	2.5	53128.170	1.5
247.6349	27.00	-1.76	13795.520	2.5	54165.350	1.5
247.6380	82.00	-1.15	7743.122	0.0	48124.647	0.0
247.6412	23.01	-3.82	8841.970	3.0	49210.780	3.0
247.6420	46.00	-1.98	0.000	0.0	40380.872	0.0
247.6443	23.00	-5.69	2112.320	.5	42480.620	.5
247.6456	25.00	-1.49	25281.040	2.5	65649.130	2.5
247.6458	27.00	-2.40	8460.810	2.5	48828.870	2.5
247.6475	9.02	-4.59	427459.370	.5	467827.160	1.5
247.6533	18.02	-1.80	226355.960	2.0	266722.800	2.0
247.6544	23.00	-1.80	553.020	4.5	40919.680	5.5
247.6554	24.02	-1.84	56992.200	3.0	97358.700	4.0
247.6606	26.02	-2.46	142047.000	4.0	182412.650	4.0
247.6617	9.02	-4.34	417970.800	1.5	458336.270	.5
247.6636	27.00	-1.81	3482.820	4.5	43847.980	3.5
247.6656	26.00	-1.17	7985.783	2.0	48350.620	1.0
247.6670	73.01	.33	3145.643	0.0	43522.439	0.0
247.6679	26.01	-2.61	1872.600	4.5	42237.050	3.5
247.6686	23.02	-1.84	105282.650	2.5	145647.000	1.5
247.6711	9.02	-3.83	387367.920	2.5	427731.850	2.5
247.6734	18.01	-3.54	150147.620	2.5	190511.190	2.5
247.6740	24.00	-3.48	8095.210	3.0	48458.670	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
247.8340	23.01	-1.82	11908.270	2.0	52245.680	2.0	248.0773	23.02	-3.23	61777.150	1.5	102075.000	2.5
247.8348	26.01	-7.71	21711.890	3.5	62049.170	2.5	248.0820	75.00	-0.13	14115.066	0.0	54424.319	0.0
247.8348	25.01	-1.69	66625.280	0.0	106962.560	1.0	248.0828	9.02	-3.78	390077.800	2.5	430374.750	2.5
247.8405	25.01	-3.84	48435.960	6.0	88772.300	5.0	248.0835	22.00	-4.48	170.132	3.0	40466.979	2.0
247.8406	25.00	-2.57	25281.040	2.5	65617.370	3.5	248.0851	18.01	-0.87	161048.640	1.5	201345.220	1.5
247.8442	25.01	-4.37	67766.510	2.0	108102.250	3.0	248.0856	17.01	-2.10	145468.500	1.0	185765.000	2.0
247.8445	26.01	-0.71	21251.550	6.5	61587.240	5.5	248.0857	25.02	-2.84	136888.700	1.5	177185.180	0.5
247.8475	25.01	-2.22	49465.130	3.0	89800.340	4.0	248.0879	25.00	-2.37	23549.200	2.5	63845.320	1.5
247.8500	28.01	-1.54	58705.950	1.5	99040.750	1.5	248.0897	6.01	-1.28	196581.960	3.5	236877.800	3.5
247.8561	6.00	-0.91	21648.010	0.0	61981.820	1.0	248.0898	24.00	-4.10	20523.690	4.0	60819.500	3.0
247.8565	25.02	-2.64	136935.600	0.5	177269.340	1.5	248.0925	26.01	-2.41	44232.510	4.0	84527.890	4.5
247.8569	26.01	-0.25	22939.350	2.5	63273.030	2.5	248.0950	74.00	-0.64	1613.150	0.0	41920.290	0.0
247.8610	25.01	-1.68	49427.320	4.0	89760.320	5.0	248.0968	25.01	-1.57	27570.950	5.0	67865.630	4.0
247.8619	26.02	-4.99	142047.000	4.0	182379.860	5.0	248.0982	9.02	-3.06	390080.300	1.5	430374.750	2.5
247.8621	23.01	-1.51	12545.150	4.0	52877.990	5.0	248.1010	23.03	-2.88	215957.700	3.0	256251.700	4.0
247.8644	23.01	-4.66	13594.730	2.0	53927.190	3.0	248.1014	24.01	-0.17	47464.940	4.5	87758.880	3.5
247.8676	25.00	-3.58	25285.430	4.5	65617.370	3.5	248.1047	26.01	-0.50	26170.190	5.5	66463.590	5.5
247.8681	22.01	-2.22	93.940	2.5	40425.800	1.5	248.1063	25.02	-2.26	100001.300	2.5	140294.440	3.5
247.8700	24.01	-0.57	49006.150	1.5	89337.700	1.5	248.1077	27.00	-2.27	8460.810	2.5	48753.720	1.5
247.8724	10.01	-1.85	481720.280	1.5	322051.430	2.5	248.1081	24.01	-2.26	32355.940	3.5	72648.790	3.5
247.8752	9.03	-1.01	460385.800	1.0	500716.500	0.0	248.1157	26.01	-4.53	62293.200	6.5	102584.810	5.5
247.8754	10.01	-2.96	281720.280	1.5	322050.950	1.5	248.1180	77.00	-0.24	0.000	0.0	40303.404	0.0
247.8766	28.01	-2.71	76402.030	2.5	116732.510	2.5	248.1204	24.01	-2.28	48632.360	3.5	88923.200	2.5
247.8778	18.02	-0.21	231341.800	2.0	271672.080	1.0	248.1206	25.02	-1.95	90440.500	4.5	130731.310	3.5
247.8780	22.01	-2.41	0.000	1.5	40390.250	0.5	248.1211	26.01	-2.68	25787.600	1.5	66078.340	2.5
247.8817	28.01	-2.28	77332.470	2.5	117662.110	1.5	248.1225	25.01	-4.99	67811.750	3.0	108102.250	3.0
247.8818	25.00	-2.95	25287.740	3.5	65617.370	3.5	248.1233	25.01	-4.33	66676.560	2.0	106966.940	2.0
247.8852	28.01	-2.90	68709.760	0.5	109038.840	1.5	248.1234	24.00	-1.04	7927.470	2.0	48217.830	2.0
247.8876	25.01	-2.14	44315.170	6.0	84649.860	6.0	248.1320	27.00	-4.17	816.000	3.5	41104.960	2.5
247.8883	24.00	-5.08	8307.570	4.0	48636.140	3.0	248.1404	24.01	-0.28	47227.500	3.5	87515.100	3.5
247.8954	23.00	-5.91	2153.200	1.5	42480.620	0.5	248.1440	72.01	0.07	17744.654	0.0	58043.835	0.0
247.8982	25.01	-1.50	27583.300	4.0	67910.260	4.0	248.1440	74.00	0.53	6129.972	0.0	46429.153	0.0
247.8991	23.02	-1.11	105320.180	1.5	145647.000	1.5	248.1475	18.01	-1.98	159393.310	1.5	199679.760	2.5
247.9018	26.01	-2.16	20830.520	2.5	61156.900	3.5	248.1491	22.01	-2.05	4628.610	2.5	44914.800	1.5
247.9020	75.00	0.02	17180.052	0.0	57518.573	0.0	248.1501	9.02	-4.07	387259.280	1.5	427545.310	1.5
247.9038	28.01	-2.93	71457.740	3.5	111783.790	3.5	248.1503	25.01	-1.30	66676.560	2.0	106962.560	1.0
247.9044	23.01	-0.65	13542.680	3.0	53868.630	2.0	248.1508	14.02	-0.70	209531.400	2.0	249817.320	3.0
247.9055	23.00	-1.85	0.000	1.5	40325.770	2.5	248.1557	26.01	-3.43	20340.360	5.5	60625.470	5.5
247.9055	18.01	-1.57	159706.460	0.5	200032.230	1.5	248.1567	27.01	-2.37	24074.600	2.0	64359.560	3.0
247.9117	24.00	-6.12	7593.160	2.0	47917.930	2.0	248.1574	26.01	-1.06	33466.500	4.5	73751.340	4.5
247.9127	28.01	-3.63	93528.440	3.5	133853.040	4.5	248.1576	26.02	-4.61	139463.360	5.0	179748.170	5.0
247.9137	24.00	-0.45	7927.470	2.0	48251.910	3.0	248.1582	27.01	-1.80	45197.800	5.0	85482.190	4.0
247.9160	77.00	-0.57	13873.093	0.0	54209.336	0.0	248.1582	24.00	-6.36	7593.160	2.0	47877.550	1.0
247.9194	25.02	-3.04	138234.790	1.5	178558.300	1.5	248.1702	25.01	-0.83	49517.580	5.0	89800.340	4.0
247.9208	25.01	-0.69	65846.610	7.0	106169.900	6.0	248.1714	24.00	-2.19	7927.470	2.0	48210.040	1.0
247.9225	26.01	-0.27	38164.240	2.5	78487.250	1.5	248.1720	71.01	-1.39	32263.008	0.0	72557.642	0.0
247.9263	28.01	-4.00	93528.440	3.5	133850.830	3.5	248.1729	25.01	-4.06	27583.300	4.0	67865.630	4.0
247.9277	25.01	-1.42	66644.780	1.0	106966.940	2.0	248.1793	25.01	-3.94	29869.110	2.0	70150.390	1.0
247.9285	25.01	-2.13	27588.230	3.0	67910.260	4.0	248.1805	17.02	-1.55	201765.100	2.5	242046.200	3.5
247.9289	26.01	-0.13	26055.400	2.5	66377.370	3.5	248.1810	42.00	-0.24	10646.793	0.0	50939.966	0.0
247.9292	15.01	-1.52	101636.490	1.0	141958.400	1.0	248.1842	25.01	-2.34	66686.450	3.0	106966.940	2.0
247.9318	24.02	-2.04	71321.800	3.0	111643.300	4.0	248.1860	73.01	0.97	11775.998	0.0	52068.359	0.0
247.9343	25.01	0.55	65846.610	7.0	106167.700	7.0	248.1875	25.01	-3.36	29951.120	1.0	70231.070	2.0
247.9369	26.01	-0.55	42658.230	3.5	82978.900	4.5	248.1890	25.01	-1.37	49291.310	3.0	89571.030	3.0
247.9435	26.01	-1.38	26352.800	4.5	66672.390	3.5	248.1903	28.00	-3.07	204.786	3.0	40484.282	2.0
247.9447	25.02	-2.92	71564.210	1.5	111883.600	2.5	248.1965	19.02	-4.87	201165.000	2.5	241443.500	2.5
247.9473	24.01	-2.78	50667.330	3.5	90986.310	3.5	248.1965	19.02	-0.62	201165.000	3.5	241443.500	2.5
247.9481	26.00	-1.03	7985.783	2.0	48304.623	2.0	248.2011	26.02	-3.65	179194.220	4.0	219471.970	4.0
247.9521	23.01	-0.57	13609.000	4.0	53927.190	3.0	248.2032	25.01	-2.87	27588.230	3.0	67865.630	4.0
247.9546	25.01	-1.76	66644.780	1.0	106962.560	1.0	248.2032	27.02	-4.41	130801.900	4.5	171079.300	3.5
247.9580	73.01	-0.14	2581.041	0.0	42910.452	0.0	248.2032	27.02	-4.41	130801.900	4.5	171079.300	3.5
247.9624	26.00	-2.71	7376.762	4.0	47693.289	3.0	248.2041	15.01	-0.94	65273.180	2.0	105550.450	2.0
247.9774	24.01	-3.28	47040.540	2.5	87354.620	1.5	248.2055	24.01	-3.79	30307.600	1.5	70584.640	2.5
247.9777	26.00	0.03	704.003	2.0	41018.029	2.0	248.2100	74.00	-0.39	2903.671	0.0	43192.136	0.0
247.9779	9.03	-0.81	452081.100	2.0	492395.100	2.0	248.2116	26.01	0.33	21251.550	6.5	61527.590	6.5
247.9785	24.02	-0.04	56992.200	3.0	97306.100	2.0	248.2151	18.01	-1.92	159706.460	0.5	199981.940	1.5
247.9797	27.02	-4.28	132489.000	2.5	172802.700	2.5	248.2182	25.01	-1.87	27570.950	5.0	67845.930	5.0
247.9800	18.02	-0.67	231754.800	0.0	272068.450	1.0	248.2190	9.02	-2.83	389737.630	0.5	430012.460	1.5
247.9802	26.01	-2.98	21812.040	1.5	62125.660	1.5	248.2248	23.01	-7.51	13594.730	2.0	53868.630	2.0
247.9804	30.02	-0.33	220668.300	2.0	260981.900	3.0	248.2252	28.01	-2.86	75917.630	3.5	116191.470	2.5
247.9850	57.01	-0.03	19115.832	0.0	59440.852	0.0	248.2254	22.01	-3.09	4628.610	2.5	44902.420	2.5
247.9871	30.02	-4.02	262495.900	4.0	302808.400	4.0	248.2262	25.01	-2.39	66676.560	2.5	106950.240	3.0
247.9911	25.01	-3.25	29919.220	2.0	70231.070	2.0	248.2269	25.02	-3.97	136421.500	5.5	176695.060	4.5
247.9914	26.02	-3.81	159493.000	3.0	199804.810	4.0	248.2298	24.02	-2.97	118055.200	1.0	158329.300	2.0
247.9924	25.01	-2.14	66644.780	1.0	106956.420	0.0	248.2309	23.01	-0.75	11908.270	2.0	52181.180	1.0
247.9940	41.01	0.64	10082.190	0.0	50405.746	0.0	248.2319	26.01	-0.24	38214.500	1.5	78487.550	1.5
247.9971	28.01	-2.32	72375.420	1.5	112686.300	2.5	248.2347	29.02	-1.51	80305.200	1.5	120577.500	2.5
248.0124	30.02	-2.51	262495.900	4.0	302804.300	5.0	248.2404	25.01	-1.95				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
248.3024	24.01	-3.61	34659.480	5	74920.800	5	248.5380	14.03	-1.90	265417.950	5	305641.100	5
248.3050	24.02	-1.17	57422.100	4.0	97683.000	3.0	248.5380	77.00	-4.3	9759.560	0.0	49994.856	0.0
248.3067	23.01	-0.81	13490.840	2.0	53751.460	1.0	248.5385	24.01	-5.57	25033.950	3.5	65257.030	3.5
248.3085	24.00	-3.40	20520.920	3.0	60781.250	2.0	248.5407	24.01	-2.25	47464.940	4.5	87687.660	4.5
248.3174	26.02	-2.72	149525.630	2.0	189784.520	2.0	248.5407	25.01	-2.93	27589.030	2.0	67811.750	3.0
248.3191	14.02	-1.01	209559.330	3.0	249817.940	4.0	248.5438	23.01	-3.10	12545.150	4.0	52767.360	3.0
248.3192	25.02	-1.48	97023.800	3.5	137282.400	2.5	248.5439	27.02	-4.71	86327.100	3.5	126549.300	3.5
248.3196	14.02	-0.79	209559.330	3.0	249817.850	4.0	248.5445	25.03	-4.22	137853.000	4.0	178075.100	3.0
248.3224	18.01	-3.92	150474.900	1.5	190732.970	5	248.5456	28.01	-4.62	79823.030	3.5	120044.950	4.5
248.3229	14.02	-1.76	209559.330	3.0	249817.320	3.0	248.5500	23.01	-3.19	208.890	3.0	40430.100	4.0
248.3241	8.02	-1.12	398137.400	3.0	438395.200	3.0	248.5508	26.01	-1.23	43238.610	2.5	83459.700	1.5
248.3272	26.00	0.79	0.000	4.0	40257.300	5.0	248.5569	8.03	-3.28	593961.900	2.5	634182.000	3.5
248.3278	25.02	-4.29	138128.800	1.5	178386.000	5	248.5601	18.02	-1.05	226503.220	3.0	266722.800	2.0
248.3315	9.02	-3.85	430012.480	1.5	470269.070	5	248.5623	14.02	-4.48	209599.700	4.0	249818.930	5.0
248.3326	23.01	-2.01	12621.570	5.0	52877.990	5.0	248.5670	64.01	-1.15	9275.615	0.0	49506.217	0.0
248.3330	45.00	-1.01	3387.616	0.0	43656.126	0.0	248.5684	14.02	-2.12	209599.700	4.0	249817.940	4.0
248.3352	13.01	-1.31	110087.500	2.0	150343.500	3.0	248.5690	14.02	-2.02	209599.700	4.0	249817.850	4.0
248.3357	18.01	-4.18	161089.310	5	201345.220	1.5	248.5718	25.02	-2.67	138340.620	2.5	178558.300	1.5
248.3387	25.01	-2.01	30684.810	1.0	70940.240	2.0	248.5722	14.02	-3.57	209599.700	4.0	249817.320	3.0
248.3390	50.00	-2.26	3387.616	0.0	43655.154	0.0	248.5730	27.02	-3.97	86283.800	4.5	126501.300	5.5
248.3394	24.01	-3.90	30143.720	5.5	70399.040	5.5	248.5736	26.02	-2.67	82410.940	2.0	122628.340	2.0
248.3423	26.01	-4.31	59663.450	1.5	99918.300	1.5	248.5784	28.01	-3.88	94067.140	1.5	134283.760	1.5
248.3439	24.00	-0.58	8307.570	4.0	48562.160	4.0	248.5785	15.01	-2.38	88894.000	1.0	129110.600	1.0
248.3451	28.02	-2.47	103306.100	3.0	143560.500	2.0	248.5793	29.01	-1.32	69867.810	2.0	110084.290	1.0
248.3482	23.01	-3.14	14461.730	3.0	54715.630	2.0	248.5804	9.03	-1.06	460385.800	1.0	506002.100	1.0
248.3534	26.00	-0.58	7985.783	2.0	48238.832	2.0	248.5810	75.00	0.28	16212.162	0.0	56440.498	0.0
248.3611	27.00	-0.34	4142.660	3.5	44394.470	3.5	248.5826	25.01	-4.86	67910.260	4.0	108126.200	3.0
248.3670	25.02	-4.17	137436.700	4.5	177687.540	3.5	248.5830	26.02	-2.99	139509.440	5.0	179725.310	6.0
248.3677	24.01	-1.07	30143.720	5.5	70394.460	4.5	248.5841	25.00	-2.16	23549.200	2.5	63764.900	2.5
248.3721	26.01	-0.52	33501.320	3.5	73751.340	4.5	248.5862	28.01	-0.90	68154.310	1.5	108368.050	2.5
248.3733	9.02	-4.03	426733.040	2.5	466982.860	2.5	248.5889	26.00	-4.06	7376.762	4.0	47590.070	4.0
248.3740	23.00	-0.43	2112.320	5	42362.040	5	248.6045	25.02	-2.22	71564.210	1.5	111776.600	1.5
248.3745	25.00	-3.83	23296.670	3.5	63546.300	3.5	248.6115	26.01	-2.59	20830.520	2.5	61041.780	2.5
248.3748	25.02	-2.57	136935.600	5	177185.180	5	248.6146	25.01	-0.39	38901.800	4.0	79112.560	5.0
248.3763	24.01	-0.36	47751.980	5.5	88001.320	5.5	248.6162	30.02	0.59	220668.300	2.0	260878.800	3.0
248.3765	10.01	-2.52	281171.380	2.5	321420.690	2.5	248.6172	25.02	-2.31	94906.450	5	135116.800	1.5
248.3772	28.02	-1.29	98238.200	4.0	138487.400	3.0	248.6175	27.02	-1.99	132592.400	1.5	172802.700	2.5
248.3782	10.01	-4.06	281171.380	2.5	321420.410	1.5	248.6194	24.01	-5.28	25047.040	2.5	65257.030	3.5
248.3791	24.01	-0.84	30150.160	6.5	70399.040	5.5	248.6240	76.01	1.32	3548.931	0.0	43770.309	0.0
248.3837	29.01	-2.44	88605.160	1.0	128853.300	2.0	248.6242	7.01	-2.69	186511.580	2.0	226720.800	2.0
248.3880	41.01	0.36	10485.478	0.0	50745.072	0.0	248.6261	24.02	-2.17	71166.100	2.0	111375.000	3.0
248.3920	75.00	0.56	11695.340	0.0	51954.286	0.0	248.6265	23.00	-6.78	2153.200	1.5	42362.040	1.5
248.4002	26.02	-2.50	82382.870	3.0	122628.340	2.0	248.6266	26.02	-4.38	159493.000	3.0	199701.820	3.0
248.4024	9.02	-4.77	426733.040	2.5	466978.150	1.5	248.6294	9.02	-3.15	387523.470	3.5	427731.850	2.5
248.4028	28.00	-3.00	3409.925	2.0	43654.974	3.0	248.6306	24.01	-0.31	30219.040	4.5	70427.220	3.5
248.4040	76.00	-1.17	5081.424	0.0	45338.425	0.0	248.6326	26.00	-2.86	12560.933	3.0	52768.780	4.0
248.4062	9.03	-0.70	416639.800	1.0	456884.300	1.0	248.6343	29.01	-3.55	88362.030	2.0	128569.600	2.0
248.4098	18.02	-0.48	186402.150	4.0	226646.060	4.0	248.6347	24.00	-1.76	8307.570	4.0	48515.080	3.0
248.4161	25.01	-1.09	66643.010	4.0	106885.900	4.0	248.6347	26.01	0.24	25805.320	4.5	66012.830	4.5
248.4170	25.01	-1.98	49517.580	5.0	89760.330	5.0	248.6370	77.00	-0.40	18389.915	0.0	58609.190	0.0
248.4186	26.00	-0.12	888.132	1.0	41130.620	1.0	248.6371	26.00	-2.29	0.000	4.0	40207.120	3.0
248.4191	15.01	-0.11	65308.050	3.0	105550.450	2.0	248.6374	23.02	-3.25	61578.740	5	101785.810	1.5
248.4204	28.01	0.02	51557.850	3.5	91800.050	4.5	248.6378	7.01	-3.61	186511.580	2.0	226718.600	1.0
248.4204	26.01	-2.31	1872.600	4.5	42114.790	4.5	248.6434	23.00	-7.17	2112.320	5	42318.420	1.5
248.4224	25.01	-3.02	31022.050	0.0	71263.920	1.0	248.6454	25.02	-3.69	100001.300	2.5	140207.090	2.5
248.4233	26.01	-1.19	23031.300	1.5	63273.030	2.5	248.6459	27.01	-0.49	10708.100	3.0	50913.800	2.0
248.4246	26.01	-0.28	26170.190	5.5	66411.700	6.5	248.6497	25.00	-3.94	17282.000	3.5	57487.080	2.5
248.4315	17.02	-0.46	201332.000	1.5	241572.400	1.5	248.6530	46.01	0.54	26939.612	0.0	67156.300	0.0
248.4355	23.01	-5.86	13511.710	1.0	53751.460	1.0	248.6653	9.02	-2.41	441158.600	1.5	481361.170	1.5
248.4370	26.01	-3.82	31999.120	3.5	72238.630	2.5	248.6657	24.01	-1.00	35607.600	3.5	75810.100	4.5
248.4376	28.01	-1.70	72985.650	1.5	113225.060	5	248.6668	18.01	-4.74	163299.470	2.5	203501.800	2.5
248.4383	27.01	-0.67	27585.300	1.0	67824.600	2.0	248.6693	26.00	-0.64	7728.058	3.0	47929.981	4.0
248.4400	74.01	0.62	19922.407	0.0	60173.574	0.0	248.6700	73.00	-0.73	3871.561	0.0	44085.499	0.0
248.4418	26.02	-4.76	139509.440	5.0	179748.170	5.0	248.6750	77.00	-0.58	13873.093	0.0	54086.223	0.0
248.4431	26.00	-3.74	7728.058	3.0	47966.571	3.0	248.6780	75.00	-0.45	11695.340	0.0	51907.984	0.0
248.4446	26.01	0.20	44446.890	3.5	84685.160	3.5	248.6806	9.02	-4.21	387259.280	1.5	427459.370	1.5
248.4451	23.03	-2.31	216905.000	1.0	257143.200	2.0	248.6826	9.02	-0.32	413143.860	3.5	453343.620	2.5
248.4489	25.01	-1.88	43696.190	3.0	83933.770	3.0	248.6836	24.01	-2.67	35610.500	4.5	75810.100	4.5
248.4493	24.01	-3.36	30156.940	3.5	70394.460	4.5	248.6846	25.01	-1.88	66686.450	3.0	106885.900	4.0
248.4493	24.01	-3.83	48399.190	1.5	88636.700	1.5	248.6857	25.01	-3.73	29951.120	1.0	70150.390	1.0
248.4510	10.01	-3.21	281171.380	2.5	321408.620	2.5	248.6865	26.02	-4.87	179216.470	6.0	219415.610	5.0
248.4512	30.02	0.17	218040.500	3.0	258277.700	3.0	248.6867	30.02	0.70	218040.500	3.0	258239.600	4.0
248.4517	26.01	-5.79	28112.040	1.5	62049.170	2.5	248.6892	17.02	-0.43	205938.500	1.5	246137.200	2.5
248.4521	10.01	-2.08	281171.380	2.5	321408.440	3.5	248.6929	30.02	-0.85	218041.500	4.0	258239.600	4.0
248.4527	26.00	-1.50	11976.239	4.0	52213.207	3.0	248.6986	25.01	-1.52	27546.900	6.0	67744.080	6.0
248.4535	28.01	-1.97	68131.210	3.5	108358.050	2.5	248.7005	29.01	-3.17	88362.030	2.0	128558.900	3.0
248.4548	25.01	-1.69	67865.630	4.0	108102.250	3.0	248.7015	24.01	-0.26	47751.980	5.5	87948.700	4.5
248.4564	26.01	-1.04	26352.800	4.5	66589.170	4.5	248.7047	24.02	-1.31	57422.100			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
248.7936	26.01	-2.15	32909.870	5.5	73091.700	4.5	249.0457	28.01	-4.49	94067.140	1.5	134208.300	2.5
248.7957	25.02	-3.15	138635.460	2.5	178816.960	2.5	249.0536	12.02	-3.63	496012.100	0.0	536152.000	1.0
248.7963	24.02	-3.23	117487.500	6.0	157668.900	6.0	249.0630	26.00	-3.60	19788.248	4.0	59926.620	5.0
248.8050	24.01	-3.67	30219.040	4.5	70399.040	5.5	249.0645	26.00	-4.4	704.003	2.0	40842.130	3.0
248.8060	28.01	-4.47	79823.030	3.5	120002.860	3.5	249.0656	28.01	-4.55	93390.060	2.5	133528.020	3.5
248.8095	25.01	-3.51	43696.190	3.0	83875.460	4.0	249.0666	30.02	-1.15	218040.500	3.0	258178.300	4.0
248.8103	24.00	-4.92	7593.160	2.0	47772.300	1.0	249.0678	30.02	-2.13	220668.300	2.0	260805.900	2.0
248.8122	7.01	-2.27	170572.610	2.0	210751.430	1.0	249.0692	24.00	-4.33	20519.600	6.0	60656.970	7.0
248.8144	26.00	-6.3	415.932	3.0	40594.413	4.0	249.0707	26.00	-6.64	7985.783	2.0	48122.913	3.0
248.8146	25.02	-4.66	100001.300	2.5	140179.740	2.5	249.0710	8.03	-1.04	594044.900	4.5	634182.000	3.5
248.8156	25.01	-1.67	27588.230	3.0	67766.510	2.0	249.0713	26.01	-1.11	33466.500	4.5	73603.530	5.5
248.8161	26.00	-2.38	6928.266	5.0	47106.463	4.0	249.0728	30.02	-2.9	218041.500	4.0	258178.300	4.0
248.8196	26.00	-3.63	7985.783	2.0	48163.427	2.0	249.0770	45.01	-3.6	16776.764	0.0	56924.991	0.0
248.8206	25.01	-2.40	27589.030	2.0	67766.510	2.0	249.0784	17.01	-2.29	121499.000	2.0	16183.900	2.0
248.8208	23.00	-2.58	137.380	2.5	40314.830	3.5	249.0823	26.02	-2.07	92523.910	5.0	132659.170	4.0
248.8211	9.02	-3.48	387367.920	2.5	427543.310	1.5	249.0828	26.01	-1.62	30388.550	4.5	70523.730	3.5
248.8230	22.00	-7.94	6661.003	3.0	46838.090	4.0	249.0829	6.01	-5.5	196571.820	2.5	236707.000	3.5
248.8272	8.02	-1.49	398218.800	4.0	438395.200	3.0	249.0831	26.00	-3.97	8154.713	1.0	48289.852	1.0
248.8303	8.02	-1.56	398127.300	2.0	438303.200	3.0	249.0832	6.01	-9.4	196557.870	.5	236693.000	1.5
248.8321	9.02	-2.78	441167.400	.5	481343.010	.5	249.0840	74.00	-4.05	16857.422	0.0	57004.521	0.0
248.8333	24.01	-2.14	30219.040	4.5	70399.040	4.5	249.0852	25.02	-2.79	94906.450	.5	135041.250	1.5
248.8368	9.02	-2.27	391257.420	2.5	431432.270	1.5	249.0852	26.01	-2.24	22810.330	3.5	62945.120	3.5
248.8373	9.02	-4.7	413195.000	2.5	453369.770	1.5	249.0865	6.01	-7.4	196563.410	1.5	236698.000	2.5
248.8422	25.01	-4.5	49291.310	3.0	89465.300	4.0	249.0918	25.01	-2.47	30523.450	6.0	70657.180	5.0
248.8463	27.00	-2.13	1809.330	1.5	41982.660	1.5	249.0935	26.02	-3.39	82494.880	1.0	122628.340	2.0
248.8475	25.01	-1.80	27570.950	5.0	67744.080	6.0	249.0968	25.01	-2.13	52383.720	4.0	92516.650	4.0
248.8539	7.01	-4.46	174212.030	2.0	214384.130	2.0	249.0975	26.02	-4.47	139625.170	4.0	179757.980	4.0
248.8550	76.00	.92	5081.424	0.0	45265.467	0.0	249.0975	22.00	-3.46	170.132	3.0	40302.950	3.0
248.8555	23.01	-4.46	12706.150	6.0	52877.990	5.0	249.0986	7.01	-1.73	170572.610	2.0	210705.260	2.0
248.8557	8.02	-1.41	398131.400	1.0	438303.200	2.0	249.1020	76.00	-1.2	8630.355	0.0	48774.553	0.0
248.8619	23.01	-2.45	9097.810	4.0	49268.610	4.0	249.1036	18.01	-1.86	159393.310	1.5	199525.150	1.5
248.8681	25.01	-4.47	53698.700	2.0	93868.500	1.0	249.1038	26.02	-2.92	142312.900	3.0	182444.700	3.0
248.8700	73.01	.94	4355.506	0.0	44537.127	0.0	249.1045	22.00	-8.97	6842.964	5.0	46974.650	5.0
248.8720	64.01	.31	8791.670	0.0	48972.688	0.0	249.1047	25.02	-2.97	137137.690	1.5	177269.340	1.5
248.8743	27.02	-4.78	91715.100	2.5	131883.900	2.5	249.1068	26.01	-2.09	31999.120	3.5	72130.440	4.5
248.8758	7.01	-2.30	170607.890	1.0	210776.450	0.0	249.1129	27.01	-2.25	24886.500	2.0	65016.830	2.0
248.8770	74.01	.90	7339.834	0.0	47520.325	0.0	249.1135	25.01	-1.85	49820.160	2.0	89950.400	3.0
248.8771	26.02	-4.40	97041.380	0.0	137209.730	4.0	249.1154	23.02	-1.97	49327.740	2.5	89457.670	2.5
248.8796	29.01	-3.95	95565.650	4.0	135733.600	3.0	249.1156	26.00	.20	888.132	1.0	41018.029	2.0
248.8804	26.02	-2.97	142312.900	3.0	182480.720	2.0	249.1168	30.02	.80	218041.500	4.0	258171.200	5.0
248.8854	18.01	-4.10	160239.350	1.5	200406.360	.5	249.1175	6.01	-1.34	196563.410	1.5	236693.000	1.5
248.8866	7.01	-2.32	186511.580	2.0	226678.400	2.0	249.1206	25.01	-3.23	44138.960	1.0	84268.060	1.0
248.8909	24.00	-3.55	20517.400	2.0	60683.530	1.0	249.1208	27.00	-2.25	14036.280	1.5	54165.350	1.5
248.8910	74.00	-6.0	6129.972	0.0	46308.203	0.0	249.1229	28.01	-4.75	91800.050	4.5	131928.770	4.5
248.8912	18.02	.28	231341.800	2.0	271507.880	2.0	249.1234	7.01	-9.1	186511.580	2.0	226640.220	3.0
248.8920	46.01	.94	24923.174	0.0	65101.243	0.0	249.1239	26.01	-4.44	45044.210	1.5	85172.770	.5
248.8929	8.02	-1.36	398137.400	3.0	438303.200	2.0	249.1268	24.02	-3.93	56992.200	3.0	97120.300	3.0
248.8935	29.01	-3.66	110084.290	1.0	150250.000	2.0	249.1303	26.01	-2.04	25428.800	5.5	65556.340	4.5
248.8941	26.00	-1.17	20641.110	4.0	60806.720	3.0	249.1335	23.01	-4.87	13741.610	3.0	53868.630	2.0
248.8944	24.01	-4.57	51789.210	3.5	91954.780	2.5	249.1350	24.00	-1.74	7750.780	0.0	47877.550	1.0
248.8965	23.00	-5.62	2153.200	1.5	42318.420	1.5	249.1356	22.00	-7.66	6598.749	2.0	46725.420	3.0
248.8983	25.02	-1.50	97271.760	5.5	137436.700	4.5	249.1380	26.01	-5.36	20830.520	2.5	60956.820	3.5
248.9015	7.01	-2.47	186511.580	2.0	226675.990	3.0	249.1387	6.01	-1.22	196571.820	2.5	236698.000	2.5
248.9021	9.02	-1.79	390210.430	3.5	430374.550	2.5	249.1389	26.01	-0.3	25805.320	4.5	65931.460	3.5
248.9040	76.00	-3.6	10082.190	0.0	50258.322	0.0	249.1389	6.01	-3.8	196581.960	3.5	236708.100	4.5
248.9041	27.02	-4.43	128524.900	2.5	168688.900	2.5	249.1411	25.00	-2.40	23719.520	1.5	63845.320	1.5
248.9089	25.01	-3.63	68284.380	3.0	108447.600	2.0	249.1446	7.01	-8.9	186570.980	3.0	226696.200	4.0
248.9098	26.01	-5.29	21812.040	1.5	61975.110	1.5	249.1457	6.01	-1.33	196581.960	3.5	236707.000	3.5
248.9200	77.00	-4.8	15970.189	0.0	56143.739	0.0	249.1577	24.01	-6.2	49351.960	2.5	89475.080	2.5
248.9230	74.01	.73	4678.136	0.0	44851.202	0.0	249.1584	24.02	-2.24	56650.500	2.0	96773.500	1.0
248.9244	24.00	-3.84	20517.400	2.0	60678.120	1.0	249.1584	26.02	-3.11	139625.170	4.0	179748.170	5.0
248.9252	26.01	-3.91	59663.450	1.5	99824.040	2.5	249.1591	24.01	-6.39	25033.950	3.5	65156.840	2.5
248.9253	27.00	-2.21	1809.330	1.5	41969.900	.5	249.1608	24.00	-2.40	8095.210	3.0	48217.830	2.0
248.9283	24.01	-3.36	30156.940	3.5	70317.040	2.5	249.1647	26.00	-1.96	12560.933	3.0	52682.930	2.0
248.9316	27.00	-2.66	1809.330	1.5	41968.890	2.5	249.1653	25.02	-2.55	100085.200	1.5	140207.090	2.5
248.9367	18.01	-3.66	155708.020	.5	195866.760	1.5	249.1688	26.02	-4.10	139509.440	5.0	179630.770	4.0
248.9484	26.01	.15	21430.390	5.5	61587.240	5.5	249.1690	76.00	.30	10969.423	0.0	51102.826	0.0
248.9491	23.01	-6.91	13594.730	2.0	53751.460	1.0	249.1697	6.01	-2.49	196571.820	2.5	236693.000	1.5
248.9493	24.00	-1.14	8095.210	3.0	48251.910	3.0	249.1701	26.01	-4.12	3117.480	1.5	43238.610	2.5
248.9508	28.00	-4.52	204.786	3.0	40361.254	3.0	249.1704	28.01	-4.08	79923.800	4.5	120044.950	4.5
248.9533	16.02	-7.5	169770.040	1.0	209926.100	1.0	249.1780	44.00	-4.54	9114.300	0.0	49246.254	0.0
248.9549	17.01	-2.66	121499.000	2.0	161654.800	1.0	249.1817	23.00	-2.27	0.000	1.5	40119.260	2.5
248.9593	15.03	-1.38	256602.700	1.0	296757.800	2.0	249.1895	24.02	-2.36	71736.000	5.0	111854.000	5.0
248.9614	27.00	-1.73	8460.810	2.5	48615.560	2.5	249.1921	25.01	-2.64	33278.390	3.0	73395.970	2.0
248.9620	90.01	-4.48	6129.972	0.0	46296.744	0.0	249.1956	26.01	-1.00	44753.820	3.5	84870.840	2.5
248.9651	27.01	-2.11	46786.300	1.0	86940.460	2.0	249.1974	25.01	-4.17	33278.390	3.0	73395.970	2.0
248.9653	29.01	-2.06	26264.400	2.0	66418.520	2.0	249.1984	26.00	-4.90	20641.110	4.0	60757.680	4.0
248.9667	28.02	-2.24	71067.000	3.0	111220.900	3.0	249.1990	26.02	-3.28	139463.360	5.0	179579.830	3.0
248.9691	23.0												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
249.2803	27.01	-1.37	45378.800	4.0	85482.190	4.0	249.5744	25.01	-2.10	31022.050	0.0	71078.180	1.0
249.2823	26.00	-3.58	7728.058	3.0	47831.132	2.0	249.5797	23.00	-2.13	323.420	3.5	40378.700	4.5
249.2840	75.00	-1.13	13711.778	0.0	53826.667	0.0	249.5820	78.00	-2.27	6533.259	0.0	46600.251	0.0
249.2862	24.01	-3.37	35707.660	5.5	75810.100	4.5	249.5869	25.01	-0.69	49465.130	3.0	89519.250	2.0
249.2910	33.00	-0.03	10485.478	0.0	50599.241	0.0	249.5871	28.00	-4.13	3409.925	2.0	43464.019	1.0
249.2922	10.01	-1.76	28132.550	.5	321434.020	1.5	249.5875	26.00	-1.09	6928.266	5.0	46982.302	6.0
249.2930	74.01	.87	14760.326	0.0	54873.767	0.0	249.5884	28.01	-4.86	94729.250	2.5	134783.140	2.5
249.2947	18.02	-2.10	186402.150	4.0	226503.220	3.0	249.5909	28.01	-4.32	96535.870	3.5	136589.350	3.5
249.2997	24.01	-2.20	30298.770	5.5	70399.040	5.5	249.5925	18.01	-3.70	159393.310	1.5	199446.540	.5
249.3020	27.02	-4.02	132277.100	3.5	172377.000	3.5	249.5927	24.02	-2.96	71321.800	3.0	111375.000	3.0
249.3029	26.02	-3.60	142312.900	3.0	182412.650	4.0	249.6020	17.01	-1.17	128621.900	1.0	168673.600	2.0
249.3080	77.00	.09	7017.204	0.0	47128.231	0.0	249.6025	25.02	-2.17	71831.980	2.5	111883.600	2.5
249.3089	25.00	-4.11	23296.670	3.5	63395.450	3.5	249.6039	9.01	-3.80	246654.740	0.0	286706.140	1.0
249.3111	24.00	-4.92	20517.400	2.0	60615.840	3.0	249.6040	75.00	.16	14115.066	0.0	54178.527	0.0
249.3120	23.00	-8.07	2220.130	2.5	42318.420	1.5	249.6049	25.00	-2.35	23296.670	3.5	63347.910	4.5
249.3146	11.01	-7.43	268766.670	1.0	308864.540	0.0	249.6067	15.01	-.89	65252.250	1.0	105303.190	1.0
249.3177	7.01	-2.48	170607.890	1.0	210705.260	2.0	249.6116	24.01	-2.01	47464.940	4.5	87515.100	3.5
249.3188	26.01	.28	21430.390	5.5	61527.590	6.5	249.6129	24.01	-3.52	49006.150	1.5	89056.100	2.5
249.3219	26.01	-1.32	25981.650	3.5	66078.340	2.5	249.6182	25.01	-1.45	66901.140	2.0	106950.240	3.0
249.3262	26.02	-2.05	142312.900	3.0	182408.910	3.0	249.6209	16.02	.06	170648.940	3.0	210697.600	2.0
249.3269	26.01	.72	12151.550	6.5	61347.440	7.5	249.6240	42.01	-.12	22342.133	0.0	62402.384	0.0
249.3282	24.01	-7.71	30298.770	5.5	70394.460	4.5	249.6240	73.00	-.85	5968.656	0.0	46028.907	0.0
249.3290	64.01	.06	9356.272	0.0	49463.921	0.0	249.6270	77.00	-.48	6291.287	0.0	46351.056	0.0
249.3293	26.01	-3.41	1872.600	4.5	41968.110	5.5	249.6283	25.02	-3.76	137137.690	1.5	177185.180	.5
249.3304	22.00	-6.26	6742.757	4.0	46838.090	4.0	249.6309	24.00	-1.31	7927.470	2.0	47974.530	3.0
249.3305	9.02	-4.73	427731.850	2.5	467827.160	1.5	249.6350	64.01	-.15	9356.272	0.0	49414.757	0.0
249.3349	27.02	-4.38	132489.000	2.5	172583.600	3.5	249.6397	7.01	-2.89	174212.030	2.0	214257.690	1.0
249.3349	27.02	-4.38	132489.000	2.5	172583.600	3.5	249.6406	18.01	-3.95	163299.470	2.5	203344.980	1.5
249.3349	27.02	-4.03	132489.000	2.5	172583.600	3.5	249.6414	25.00	-2.31	23719.520	1.5	63764.900	2.5
249.3353	25.02	-1.58	100085.200	1.5	140179.740	2.5	249.6415	9.02	-4.67	441315.800	.5	481361.170	1.5
249.3390	74.00	-4.33	12098.628	0.0	52204.668	0.0	249.6434	24.01	-1.27	32603.730	2.5	72648.790	3.5
249.3502	24.00	-3.82	20523.690	4.0	60615.840	3.0	249.6451	18.02	-.42	231627.300	1.0	271672.080	1.0
249.3521	20.02	-.95	282571.430	1.0	322663.280	0.0	249.6480	40.01	-.25	7743.122	0.0	47799.521	0.0
249.3574	27.01	-2.25	25317.720	1.0	65408.710	2.0	249.6492	9.01	-3.02	246662.010	1.0	286706.140	1.0
249.3574	26.01	-3.75	44753.820	3.5	84844.810	2.5	249.6518	7.01	-2.10	186652.490	4.0	226696.200	4.0
249.3580	23.01	-2.39	339.210	4.0	40430.100	4.0	249.6534	26.00	-.72	7376.762	4.0	47420.215	5.0
249.3581	26.00	-4.38	17550.180	3.0	57641.060	3.0	249.6550	8.02	-1.88	398474.300	3.0	438517.500	4.0
249.3635	9.01	-4.96	255498.600	2.0	295588.610	1.0	249.6560	44.00	-.16	7420.492	0.0	47475.608	0.0
249.3650	23.02	-2.42	49327.740	2.5	89417.500	3.5	249.6640	74.01	.50	4678.136	0.0	44731.968	0.0
249.3657	26.01	-2.42	60402.380	2.5	100492.040	3.5	249.6700	26.02	-1.82	92523.910	5.0	132564.710	5.0
249.3689	28.01	-4.39	94067.140	1.5	134156.280	1.5	249.6700	75.00	-.71	17180.052	0.0	57232.922	0.0
249.3705	23.01	-3.66	106.630	2.0	40195.520	3.0	249.6707	27.00	-.76	4142.660	3.5	44183.340	4.5
249.3739	25.02	-2.71	137599.200	3.5	177687.540	3.5	249.6731	24.02	-2.78	118423.300	2.0	158463.600	3.0
249.3760	23.00	-2.17	137.380	2.5	40225.380	1.5	249.6779	5.00	-.95	0.000	.5	40039.520	.5
249.3769	10.01	-1.67	281332.550	.5	321420.410	1.5	249.6795	9.01	-4.05	246662.010	1.0	286701.280	2.0
249.3779	17.01	-4.20	147053.700	2.0	187141.400	2.0	249.6807	28.01	-1.05	75917.630	3.5	115956.710	2.5
249.3830	76.00	-1.60	0.000	0.0	40098.964	0.0	249.6868	8.02	-.14	20274.000	2.0	60312.100	2.0
249.3881	26.01	.08	44784.780	2.5	84870.840	2.5	249.6876	25.01	-.73	49427.320	4.0	89465.300	4.0
249.3930	27.00	-1.54	8460.810	2.5	48546.070	1.5	249.6883	24.01	-1.82	65384.040	4.5	105421.900	5.5
249.3934	7.01	-2.41	170666.230	0.0	210751.430	1.0	249.6892	25.01	-3.58	66929.220	2.0	106966.940	2.0
249.3981	9.02	-4.55	441276.720	2.5	481361.170	1.5	249.6937	18.03	-2.38	250219.450	.5	290256.450	1.5
249.4001	26.00	-.94	8154.713	1.0	48238.832	2.0	249.6970	74.00	-.25	17018.737	0.0	57067.276	0.0
249.4006	26.00	-2.28	7728.058	3.0	47812.104	4.0	249.6973	7.01	-.31	186652.490	4.0	226688.900	5.0
249.4020	44.00	.10	8952.985	0.0	49048.894	0.0	249.6980	26.02	-3.48	139625.170	4.0	179661.480	3.0
249.4049	25.01	-2.06	43850.420	2.0	83933.770	3.0	249.6981	18.01	-4.60	150474.900	1.5	190511.190	2.5
249.4112	18.01	-2.79	158730.210	2.5	198612.550	2.5	249.6990	72.01	-.30	3629.588	0.0	43677.806	0.0
249.4116	26.01	-.48	21430.390	5.5	61512.670	4.5	249.6992	26.00	-.77	20641.110	4.0	60677.230	5.0
249.4117	18.01	-3.48	151087.250	2.5	191169.520	1.5	249.7003	23.01	-2.39	12621.570	5.0	52657.100	4.0
249.4123	24.00	-4.89	21847.880	2.0	61930.050	3.0	249.7024	11.02	.05	366165.300	2.5	406200.900	2.5
249.4144	26.01	-2.27	20805.830	4.5	60887.660	5.5	249.7027	25.00	-3.90	17451.520	2.5	57487.080	3.0
249.4196	26.01	-1.48	44446.890	3.5	84527.890	4.5	249.7049	30.02	-1.91	218040.500	3.0	258075.700	3.0
249.4220	27.02	-4.71	128804.900	1.5	168885.500	1.5	249.7049	23.03	-1.06	217108.000	2.0	257143.200	2.0
249.4252	26.00	-1.66	6928.266	5.0	47008.351	5.0	249.7055	28.02	-.99	97996.300	3.0	138031.400	4.0
249.4280	26.02	-3.90	142312.900	3.0	182392.550	2.0	249.7084	25.00	-2.35	23549.200	2.5	63583.840	1.5
249.4321	28.01	-4.97	79923.880	4.5	120002.860	3.5	249.7092	26.01	-4.08	63948.840	4.5	103983.350	3.5
249.4358	23.03	-.21	223033.000	3.0	263111.400	4.0	249.7103	23.00	-2.80	553.020	4.5	40587.350	3.5
249.4391	25.00	-2.92	23296.670	3.5	63374.530	4.5	249.7111	30.02	-.55	218041.500	4.0	258075.700	3.0
249.4413	26.02	-4.00	139680.470	3.0	179757.980	4.0	249.7165	25.01	-3.14	66929.220	2.0	106962.560	1.0
249.4489	24.01	-2.43	34631.140	4.5	74707.420	5.5	249.7220	18.01	-4.04	150474.900	1.5	190507.360	1.5
249.4510	26.00	-2.53	7376.762	4.0	47452.702	4.0	249.7269	26.02	-2.09	117950.320	4.0	157982.000	3.0
249.4546	25.01	-1.32	41204.340	5.0	81279.710	4.0	249.7300	26.01	-1.66	25981.650	3.5	66012.830	4.5
249.4563	23.03	-1.43	225804.100	2.0	265879.200	1.0	249.7357	25.01	-3.84	68417.340	2.0	108447.600	2.0
249.4563	23.03	-1.86	225804.100	2.0	265879.200	2.0	249.7373	15.01	-.38	65273.180	2.0	105303.190	1.0
249.4600	4.00	.15	21980.000	0.0	62066.587	0.0	249.7448	9.03	-1.02	502652.400	2.0	542681.200	2.0
249.4684	25.01	-3.76	66893.790	1.0	106966.940	2.0	249.7480	74.01	.31	6049.314	0.0	46089.675	0.0
249.4687	24.00	-4.84	21856.940	3.0	61930.050	3.0	249.7485	27.01	-2.69	24886.500	2.0	64914.710	2.0
249.4731	27.00	-1.53	3482.820	4.5	43555.220	3.5	249.7489	26.00	-8.18	7593.160	2.0	47621.310	3.0
249.4739	7.01	-1.23	186570.980	3.0	226643.250	4.0	249.7536	27.02	-3.34	70934.100	2.5	110961.500	1.5
249.4743	28.												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
249.8155	28.01	-3.39	75721.680	5.5	115739.150	4.5	250.0482	25.01	-3.17	66542.260	5.0	106522.500	6.0
249.8160	25.00	-2.10	25287.740	3.5	65305.130	3.5	250.0497	24.00	-4.03	20523.940	5.0	60503.940	4.0
249.8220	75.00	-1.13	13711.778	0.0	53740.278	0.0	250.0570	75.00	.01	23793.968	0.0	63784.850	0.0
249.8239	23.00	-2.95	137.380	2.5	40153.510	2.5	250.0581	26.02	-1.97	179676.890	2.0	219655.550	2.0
249.8266	17.01	-1.70	147125.700	3.0	187141.400	2.0	250.0626	25.01	-3.89	30679.240	5.0	70657.180	5.0
249.8280	42.01	.26	15566.901	0.0	55594.440	0.0	250.0668	24.00	-1.42	7810.820	1.0	47788.080	0.0
249.8330	73.01	.10	4355.506	0.0	44382.244	0.0	250.0671	7.01	-.79	186511.580	2.0	226488.790	3.0
249.8360	26.01	-1.85	21711.890	3.5	61726.090	3.5	250.0694	25.00	-2.39	25285.430	4.5	65262.280	4.5
249.8400	90.01	-.79	4436.164	0.0	44461.780	0.0	250.0695	25.01	-.69	66542.260	5.0	106519.100	5.0
249.8410	76.00	1.08	8630.355	0.0	48655.811	0.0	250.0700	31.00	-1.20	806.575	0.0	40795.378	0.0
249.8500	78.00	-.82	725.918	0.0	40749.932	0.0	250.0740	72.01	.09	15002.299	0.0	54990.463	0.0
249.8549	26.02	-4.81	149013.360	4.0	189024.530	5.0	250.0791	9.02	-4.46	441385.880	1.5	481361.170	1.5
249.8553	17.01	-.95	128662.500	2.0	158673.600	2.0	250.0792	24.00	-1.51	7810.820	1.0	47786.100	2.0
249.8657	24.01	-3.94	30307.600	1.5	70317.040	2.5	250.0810	24.01	-3.54	49646.250	3.5	89621.250	3.5
249.8702	26.00	-4.00	8154.713	1.0	48163.427	2.0	250.0833	25.00	-3.75	23549.200	2.5	63523.820	2.5
249.8706	23.02	-3.13	61777.150	1.5	101785.810	1.5	250.0838	25.00	-2.48	25287.740	3.5	65262.280	4.5
249.8750	24.00	-4.26	20519.600	6.0	60527.550	6.0	250.0840	44.00	-.32	9033.642	0.0	49020.207	0.0
249.8780	46.01	.65	32101.693	0.0	72121.223	0.0	250.0870	28.01	-2.57	58493.210	2.5	98467.250	3.5
249.8803	24.01	-.41	30391.940	6.5	70399.040	5.5	250.0910	76.00	0.00	13953.751	0.0	53399.196	0.0
249.8819	26.00	-3.32	888.132	1.0	40894.972	2.0	250.0917	26.01	.35	38164.240	2.5	78137.530	3.5
249.8828	27.01	-.09	25147.200	4.0	65153.900	4.0	250.0931	7.01	-2.01	186511.580	2.0	226488.790	3.0
249.8860	75.00	-.51	11534.025	0.0	51552.273	0.0	250.0945	14.01	-.66	79338.760	1.5	119311.600	2.5
249.8860	90.01	-.51	6613.917	0.0	46632.165	0.0	250.0959	26.02	-2.46	179682.940	1.0	219655.550	2.0
249.8874	26.00	-3.22	415.932	3.0	40421.890	4.0	250.0961	15.01	-.72	65252.250	1.0	105224.830	0.0
249.8886	26.01	-.98	22939.350	2.5	62945.120	3.5	250.1016	27.02	-4.06	129556.000	5.5	16527.700	4.5
249.8897	26.02	-2.87	139625.170	4.0	179630.770	4.0	250.1054	7.01	-2.05	186511.580	2.0	226482.680	3.0
249.8897	26.01	.27	21581.640	4.5	61587.240	5.5	250.1133	26.00	-.33	0.000	4.0	39969.830	3.0
249.8915	28.02	-4.42	82277.000	1.0	122282.300	2.0	250.1134	9.02	-4.34	417585.350	.5	457555.170	1.5
249.8945	22.01	-1.78	4897.600	3.5	44902.420	2.5	250.1207	26.01	-1.78	45079.910	2.5	85048.560	1.5
249.8975	26.01	-.68	45044.210	1.5	85048.560	1.5	250.1257	27.00	-2.64	4690.180	2.5	44658.030	1.5
249.8978	9.03	-1.00	460385.800	1.0	500390.100	2.0	250.1304	24.02	-2.92	71676.200	4.0	111643.300	4.0
249.9005	25.01	-.16	30523.450	6.0	70527.320	5.0	250.1355	26.01	-.53	55206.490	.5	85172.770	.5
249.9021	24.00	-4.40	20523.940	5.0	60527.550	6.0	250.1365	26.02	-3.58	77102.430	2.0	117068.560	3.0
249.9022	27.02	-4.40	129592.300	4.5	169595.900	3.5	250.1392	26.01	-3.69	31999.120	3.5	71964.810	2.5
249.9037	16.02	-.55	169770.040	1.0	209773.400	0.0	250.1397	23.01	-4.61	36.050	1.0	40001.660	2.0
249.9040	64.01	-.08	9275.615	0.0	49290.981	0.0	250.1399	28.01	-4.36	79923.880	4.5	119889.470	5.5
249.9049	26.01	-1.56	36126.410	1.5	76129.580	1.5	250.1421	26.00	-5.21	7728.058	3.0	47693.289	3.0
249.9070	24.00	-1.90	8307.570	4.0	48310.390	5.0	250.1471	29.01	-2.84	88605.160	1.0	128569.600	2.0
249.9100	23.00	-3.13	323.420	3.5	40325.770	2.5	250.1475	24.01	-2.92	33521.230	3.5	73485.600	3.5
249.9125	24.01	-2.94	65419.950	5.5	105421.900	5.5	250.1480	44.00	.04	9033.642	0.0	49009.976	0.0
249.9156	26.01	-3.57	20805.830	4.5	60807.280	4.5	250.1491	24.01	-1.34	30143.720	5.5	70107.830	4.5
249.9178	25.01	-3.96	43528.300	5.0	83529.400	4.0	250.1514	26.02	-1.98	82382.870	3.0	122346.610	3.0
249.9199	24.00	-4.35	20517.400	2.0	60518.160	3.0	250.1613	23.00	-1.19	0.000	1.5	39962.170	2.5
249.9236	25.01	-1.02	49465.130	3.0	89465.300	4.0	250.1655	9.03	-.82	460640.600	2.0	500602.100	1.0
249.9253	23.00	-3.02	0.000	1.5	39999.890	2.5	250.1656	24.00	-1.93	7810.820	1.0	47772.300	1.0
249.9253	17.01	-2.25	121635.000	3.0	161634.900	2.0	250.1680	23.02	-3.62	107165.900	1.5	147127.000	2.5
249.9273	28.01	-4.87	93528.440	3.5	133528.020	3.5	250.1695	26.00	-.39	6928.266	5.0	46889.126	4.0
249.9390	63.01	-1.86	1613.150	0.0	41622.912	0.0	250.1703	23.01	-3.92	36425.070	4.0	76385.800	3.0
249.9419	24.00	-4.06	20520.920	3.0	60518.160	3.0	250.1720	75.00	-.16	14115.066	0.0	54087.565	0.0
249.9419	24.00	-4.11	20520.920	3.0	60518.160	3.0	250.1761	27.02	-5.00	132623.800	3.5	172583.600	3.5
249.9428	25.00	-3.33	23549.200	2.5	63546.300	3.5	250.1761	27.02	-5.00	132623.800	3.5	172583.600	3.5
249.9435	8.03	-.74	576328.500	.5	616325.500	1.5	250.1780	74.00	-.91	2903.671	0.0	42875.211	0.0
249.9440	74.00	-.11	13227.833	0.0	53236.795	0.0	250.1836	18.01	-2.96	150147.620	2.5	190106.230	1.5
249.9459	27.02	-4.17	132587.000	4.5	172583.600	3.5	250.1840	76.00	-.21	13953.751	0.0	53924.333	0.0
249.9459	27.02	-4.17	132587.000	4.5	172583.600	3.5	250.1873	25.01	-1.23	67008.930	3.0	106966.940	2.0
249.9459	27.02	-4.83	132587.000	4.5	172583.600	3.5	250.1890	44.00	-.07	9114.300	0.0	49084.083	0.0
249.9463	25.00	-2.33	25265.740	5.5	65262.280	4.5	250.1928	9.02	-4.53	441385.880	1.5	481343.010	.5
249.9528	18.01	-2.84	160239.350	1.5	200234.860	2.5	250.1946	26.01	-4.09	44753.820	3.5	84710.660	3.5
249.9538	18.01	-3.50	163506.450	3.5	203501.800	2.5	250.1979	14.01	-1.81	79355.280	2.5	119311.600	2.5
249.9551	22.00	-8.38	6842.964	5.0	46838.090	4.0	250.1980	73.01	.87	9598.245	0.0	49566.590	0.0
249.9578	25.03	-2.32	152986.000	2.0	192980.700	1.0	250.1988	14.01	-.51	79355.280	2.5	119311.600	2.5
249.9592	24.00	-4.71	20523.690	4.0	60518.160	3.0	250.2000	70.01	-.61	21293.585	0.0	61261.611	0.0
249.9617	26.02	-2.69	179661.480	3.0	219655.550	2.0	250.2024	27.02	-1.72	86283.800	4.5	126239.400	4.5
249.9620	24.01	-2.13	25035.640	.5	65029.670	.5	250.2035	26.01	-5.90	23317.600	2.5	63273.030	2.5
249.9632	24.01	-2.58	33418.110	2.5	73411.940	1.5	250.2057	26.02	-3.78	142855.590	4.0	182810.660	5.0
249.9661	24.00	-1.95	23933.900	4.0	63927.270	5.0	250.2071	26.02	-4.31	179207.570	5.0	219162.420	6.0
249.9665	9.02	-4.86	426989.570	3.5	466982.860	2.5	250.2075	26.02	-4.23	109570.840	2.0	149525.630	2.0
249.9690	26.00	-2.37	11976.239	4.0	51969.140	3.0	250.2083	26.02	-4.07	139625.170	4.0	179579.830	5.0
249.9690	74.01	.59	7339.834	0.0	47344.795	0.0	250.2105	28.02	-4.46	76237.800	3.0	116192.100	4.0
249.9715	25.01	-4.80	43536.900	4.0	83529.400	4.0	250.2119	22.01	-8.06	12676.990	4.5	52631.070	3.5
249.9723	25.01	-4.34	39808.140	3.0	79800.520	4.0	250.2209	28.01	-1.49	75917.630	3.5	115870.280	2.5
249.9740	25.00	-2.48	23296.670	3.5	63288.780	3.5	250.2237	28.02	-2.98	121802.800	3.0	161755.000	3.0
249.9783	23.00	-3.31	323.420	3.5	40314.830	3.5	250.2280	27.00	-1.32	7442.410	3.5	47393.930	2.5
249.9824	7.01	-1.25	186652.490	4.0	226643.250	4.0	250.2290	76.00	.38	11292.053	0.0	51255.447	0.0
249.9843	24.00	-2.50	7927.470	2.0	47917.930	2.0	250.2298	25.01	-4.07	68496.370	1.0	108447.600	2.0
249.9906	28.01	-4.54	79923.880	4.5	119913.330	4.5	250.2350	75.01	1.49	20809.640	0.0	60772.075	0.0
249.9920	76.00	.55	14276.381	0.0	54277.661	0.0	250.2356	26.02	-4.83	139680.470	3.0	179630.770	4.0
249.9922	27.02	-4.02	131279.900	3.5	171269.100	4.5	250.2370	24.00	-4.69	7927.470	2.0	47877.550	1.0
249.9942	18.02	-1.57	186657.200										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
250.3028	25.01	-3.11	43131.400	2.0	83070.970	2.0	250.5643	26.01	-0.98	43238.610	2.5	83136.500	3.5
250.3040	74.00	-0.88	15002.299	0.0	54953.718	0.0	250.5643	27.02	-1.23	133711.400	2.5	173609.300	1.5
250.3100	25.02	-3.69	94850.660	1.5	134789.080	.5	250.5643	27.02	-1.23	133711.400	2.5	173609.300	1.5
250.3157	26.01	-1.74	43620.980	1.5	83558.500	.5	250.5643	27.02	-4.70	133711.400	2.5	173609.300	1.5
250.3214	24.02	-4.86	57422.100	4.0	97358.700	4.0	250.5650	74.00	-0.18	12098.628	0.0	52008.432	0.0
250.3260	28.01	.13	75149.480	4.5	115085.360	3.5	250.5670	45.00	-0.68	2581.041	0.0	42490.526	0.0
250.3272	24.01	-1.12	47751.980	5.5	87687.660	4.5	250.5740	77.00	-0.71	6291.287	0.0	46199.657	0.0
250.3273	26.02	-2.81	82410.940	2.0	122346.610	3.0	250.5758	26.02	-3.22	179759.490	2.0	219655.550	2.0
250.3290	29.02	-3.54	85446.400	1.5	125381.800	2.5	250.5771	26.01	-1.23	64087.500	2.5	103983.350	3.5
250.3295	26.02	-2.82	179630.770	4.0	219566.080	3.0	250.5823	23.01	-4.17	106.630	2.0	40001.660	2.0
250.3296	14.01	-3.49	79338.760	1.5	119274.070	1.5	250.5836	26.02	-2.02	179760.720	3.0	219655.550	2.0
250.3310	23.00	-1.41	0.000	1.5	39935.070	1.5	250.5842	28.01	-0.79	29070.930	1.5	86965.650	1.5
250.3324	26.01	.18	54248.800	5.5	65363.660	5.5	250.5865	24.01	-0.98	34813.060	5.5	74707.420	5.5
250.3335	9.02	-2.10	390077.800	2.5	430012.480	1.5	250.5879	27.01	-1.58	44452.600	2.0	86346.730	3.0
250.3362	23.00	-6.25	2311.370	3.5	42245.610	3.5	250.5890	69.01	-1.85	0.000	0.0	39905.982	0.0
250.3419	22.01	-6.48	93.940	2.5	40027.280	1.5	250.5893	26.01	-2.49	45044.210	1.5	84938.130	1.5
250.3421	24.01	-1.90	42986.730	1.5	82920.030	1.5	250.5940	75.00	-0.11	11695.340	0.0	51600.525	0.0
250.3488	26.00	-0.39	20874.482	3.0	60806.720	3.0	250.6005	26.02	-2.88	179579.830	5.0	219471.970	4.0
250.3492	22.00	-3.10	7255.369	2.0	47187.540	2.0	250.6030	74.00	-0.63	3306.958	0.0	43210.710	0.0
250.3492	9.02	-2.95	390080.300	1.5	430012.480	1.5	250.6031	9.02	-2.74	390120.770	.5	430012.480	1.5
250.3510	28.01	-1.20	75149.480	4.5	115081.360	4.5	250.6084	28.01	-0.57	54176.260	.5	94067.140	1.5
250.3544	26.01	-1.30	44753.820	3.5	84685.160	3.5	250.6089	26.01	.05	25805.320	4.5	65696.110	4.5
250.3564	26.01	-1.02	21581.640	4.5	61512.670	4.5	250.6117	24.01	-2.07	25033.950	3.5	64924.300	3.5
250.3568	26.01	-2.68	23031.300	1.5	62962.260	1.5	250.6184	26.00	-2.60	12968.552	2.0	52857.840	1.0
250.3577	26.02	-4.09	139827.170	4.0	179757.980	4.0	250.6190	26.02	-2.30	179676.890	2.0	219566.080	3.0
250.3578	9.03	-0.27	502652.400	2.0	542583.200	3.0	250.6215	24.01	-2.53	30219.040	4.5	70107.830	4.5
250.3584	27.02	-3.00	131098.200	4.5	171028.900	5.5	250.6215	23.01	-0.93	8841.970	3.0	48730.760	4.0
250.3611	24.01	-2.20	34813.060	5.5	74743.330	6.5	250.6265	27.02	-1.98	132489.000	2.5	172377.000	3.5
250.3678	24.02	-2.19	56992.200	3.0	96921.400	2.0	250.6273	29.01	-0.06	68447.570	3.0	108335.430	2.0
250.3710	23.02	-4.72	101785.810	1.5	141714.500	2.5	250.6297	11.01	-1.42	293224.120	1.0	333111.600	1.0
250.3827	22.01	-5.09	0.000	1.5	39926.830	2.5	250.6318	25.02	-2.27	136796.610	2.5	176683.760	2.5
250.3840	45.01	.14	20487.010	0.0	60425.664	0.0	250.6319	24.01	-0.29	48749.570	.5	88636.700	1.5
250.3841	9.02	-1.51	351330.800	1.5	391257.420	2.5	250.6332	24.00	-1.72	7927.470	2.0	47814.400	3.0
250.3867	26.01	.41	30388.550	4.5	70314.740	4.5	250.6341	23.00	-4.86	2112.320	.5	41999.100	1.5
250.3887	26.01	-1.68	44784.780	2.5	84710.660	3.5	250.6386	25.01	-6.49	68284.380	3.0	108170.450	2.0
250.3936	18.01	-4.05	151087.250	2.5	191012.350	1.5	250.6418	23.02	-2.74	101645.610	.5	141531.170	1.5
250.4018	18.01	-4.77	148842.370	2.5	188766.150	2.5	250.6428	26.01	-2.68	20516.980	2.5	60402.380	2.5
250.4077	25.02	-2.94	138635.460	2.5	178558.300	1.5	250.6435	26.02	-2.78	179207.570	5.0	219092.860	5.0
250.4098	26.01	-3.00	62662.300	5.5	102584.810	5.5	250.6453	27.02	-3.33	131581.600	3.5	171466.600	2.5
250.4112	26.02	-3.06	142908.480	5.0	182830.760	6.0	250.6453	27.02	-3.33	131581.600	3.5	171466.600	2.5
250.4130	30.02	-0.75	218040.500	3.0	257962.500	2.0	250.6453	27.02	-4.73	131581.600	3.5	171466.600	2.5
250.4141	24.00	-2.57	20519.600	6.0	60441.420	6.0	250.6466	27.01	-0.03	9812.700	4.0	49697.500	4.0
250.4175	28.01	-1.88	72985.650	1.5	112906.930	1.5	250.6489	23.00	-2.04	0.000	1.5	39884.430	1.5
250.4185	7.01	-0.70	186570.980	3.0	226492.090	4.0	250.6515	29.01	-2.76	110365.980	2.0	150250.000	2.0
250.4193	26.02	-4.94	139827.170	4.0	179748.170	5.0	250.6566	26.00	-0.31	20874.482	3.0	60757.680	4.0
250.4199	8.02	-2.46	398474.300	3.0	438395.200	3.0	250.6583	26.01	-1.51	45289.840	1.5	85172.770	.5
250.4255	17.02	-0.38	201765.100	2.5	241685.100	2.5	250.6600	77.00	-0.36	12421.258	0.0	52315.936	0.0
250.4287	28.01	-2.47	98969.440	5.5	138888.930	6.5	250.6731	18.02	-0.25	231627.300	1.0	271507.880	2.0
250.4306	24.00	-0.22	8095.210	3.0	48014.400	4.0	250.6753	26.00	.64	20874.482	3.0	60754.710	4.0
250.4331	14.01	-2.54	79355.280	2.5	119274.070	1.5	250.6763	24.01	-3.05	32836.840	3.5	72716.910	4.5
250.4343	25.00	-3.65	17568.480	1.5	57487.080	2.5	250.6791	26.01	-2.86	22810.330	3.5	62689.960	2.5
250.4369	25.01	-1.07	49882.150	4.0	89800.340	4.0	250.6810	24.00	-5.64	8095.210	3.0	47974.530	3.0
250.4370	77.00	.18	17663.997	0.0	57594.199	0.0	250.6822	26.02	-4.55	139846.180	6.0	179725.310	6.0
250.4389	23.00	-6.21	2220.130	2.5	42138.000	2.5	250.6875	27.00	-0.25	4690.180	2.5	44568.470	2.5
250.4390	76.00	-0.35	2661.698	0.0	42591.581	0.0	250.6882	25.01	-2.63	49882.150	4.0	89760.330	5.0
250.4392	7.01	-2.72	186570.980	3.0	226488.790	3.0	250.6891	25.02	-4.20	137599.200	3.5	177477.230	2.5
250.4414	24.00	-3.48	20523.940	5.0	60441.420	6.0	250.6893	9.03	-2.45	452517.100	3.0	492395.100	2.0
250.4424	28.01	-1.87	93528.440	3.5	133445.750	4.5	250.6897	14.00	-0.74	77.115	1.0	39955.053	2.0
250.4426	18.02	-0.31	231754.800	0.0	271672.080	1.0	250.6917	23.00	-4.91	0.000	1.5	39877.620	.5
250.4441	24.01	-0.19	49006.150	1.5	88923.200	2.5	250.6940	24.01	-2.15	25047.040	2.5	64924.300	3.5
250.4450	73.00	-0.05	3871.561	0.0	43800.488	0.0	250.6947	10.01	-2.77	279218.660	2.5	319095.810	2.5
250.4502	22.00	-2.28	386.874	4.0	40302.950	3.0	250.6958	25.01	-2.16	67008.930	3.0	106885.900	4.0
250.4510	76.00	-0.46	4113.534	0.0	44041.504	0.0	250.6965	10.01	-1.47	279218.660	2.5	319095.810	2.5
250.4519	30.02	-1.65	220668.300	2.0	260584.100	1.0	250.6969	23.03	-0.99	216905.000	1.0	256781.800	1.0
250.4519	27.00	-0.63	3482.820	4.5	43398.620	3.5	250.6980	26.01	-0.99	36252.960	2.5	76129.580	1.5
250.4530	74.00	-0.53	9436.930	0.0	49364.581	0.0	250.6994	26.02	-1.87	179216.470	6.0	219092.860	5.0
250.4567	24.01	-1.92	33521.230	3.5	73436.270	2.5	250.7013	25.01	-0.71	66643.010	4.0	106519.100	5.0
250.4583	24.01	.05	49706.470	2.5	89621.250	3.5	250.7015	26.01	-0.95	26055.400	2.5	65931.460	3.5
250.4600	75.01	1.00	17099.394	0.0	57025.929	0.0	250.7032	25.01	-3.71	31514.350	4.0	71390.140	3.0
250.4619	17.02	-0.70	205037.300	1.5	244951.500	.5	250.7115	25.02	-2.61	72183.330	3.5	112057.800	3.5
250.4627	26.00	-3.28	17726.985	2.0	57641.060	3.0	250.7155	26.02	-3.13	142535.070	2.0	182408.910	3.0
250.4650	41.00	.10	2742.356	0.0	42668.094	0.0	250.7172	27.00	-1.93	8460.810	2.5	48334.370	1.5
250.4653	7.01	-2.92	186570.980	3.0	226484.640	2.0	250.7180	76.01	.17	3871.561	0.0	43757.010	0.0
250.4700	74.00	-0.43	1613.150	0.0	41538.091	0.0	250.7213	24.01	-2.28	40415.340	.5	80288.250	1.5
250.4739	27.02	-3.23	86327.100	3.5	126239.400	4.5	250.7213	22.01	-5.89	12758.150	2.5	52631.070	3.5
250.4739	18.01	-3.34	160239.350	1.5	200151.640	1.5	250.7231	26.02	-2.39	77102.430	2.0	116975.050	2.0
250.4776	7.01	-1.83	186570.980	3.0	226482.680	3.0	250.7321	25.02	-2.83	136823.860	3.5	176695.060	4.5
250.4853	25.01	-3.59	49889.860	3.0	89800.340	4.0	250.7323	24.00	-0.31	24056.110	5.0	63927.270	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
250.8102	16.02	-0.25	170067.310	2.0	209926.100	1.0	251.0788	23.00	-5.59	2112.320	.5	41928.470	.5
250.8111	24.00	-1.22	7927.470	2.0	47786.100	2.0	251.0836	26.00	-0.19	415.932	3.0	40231.312	2.0
250.8137	26.01	-3.29	45079.910	2.5	84938.130	1.5	251.0874	28.01	-0.33	13550.390	3.5	53365.170	4.5
250.8173	28.01	-3.02	67880.160	2.5	107737.810	1.5	251.0887	22.01	-2.65	983.800	2.5	40798.370	3.5
250.8184	26.02	-3.22	142535.070	2.0	182392.550	2.0	251.1000	41.01	.35	5484.711	0.0	45309.482	0.0
250.8231	23.00	-6.13	2153.200	1.5	42009.930	2.5	251.1010	28.01	-1.02	68755.980	2.5	108548.610	1.5
250.8246	27.02	-4.28	131883.900	2.5	171740.400	1.5	251.1018	27.00	.14	3482.820	4.5	43295.320	4.5
250.8246	27.02	-4.28	131883.900	2.5	171740.400	1.5	251.1037	28.02	-3.97	78303.100	2.0	118115.300	2.0
250.8254	27.00	-2.92	8460.810	2.5	48317.170	3.5	251.1052	24.01	-3.43	32836.840	3.5	72648.790	3.5
250.8258	23.01	-3.58	339.210	4.0	40195.520	3.0	251.1082	23.01	-3.40	22273.540	1.0	62085.020	2.0
250.8270	44.00	.13	7420.492	0.0	47288.608	0.0	251.1101	9.02	-1.59	351236.350	.5	391047.540	.5
250.8321	9.03	-0.77	502411.000	1.0	542266.300	1.0	251.1145	26.02	-2.01	179661.480	3.0	219471.970	4.0
250.8350	77.00	-0.34	12824.546	0.0	52691.391	0.0	251.1156	26.02	-4.04	179194.220	4.0	219004.530	4.0
250.8371	23.03	-1.97	217836.300	3.0	257690.800	3.0	251.1204	2.01	-0.30	390142.340	0.0	429963.876	0.0
250.8440	74.00	-0.18	12098.628	0.0	51964.042	0.0	251.1235	24.01	-1.01	30298.770	5.5	70107.830	4.5
250.8465	8.03	-0.44	576472.500	1.5	616325.500	1.5	251.1242	26.02	-2.50	83646.980	1.0	123455.920	0.0
250.8500	78.00	-0.41	6533.259	0.0	46397.720	0.0	251.1295	26.02	-1.91	179757.980	4.0	219566.080	3.0
250.8545	18.01	-3.35	163299.470	2.5	203151.200	2.5	251.1327	25.01	-1.54	43131.400	2.0	82939.300	1.0
250.8548	28.01	-4.05	92373.450	2.5	132225.150	1.5	251.1346	17.02	-0.78	201765.100	2.5	241572.400	1.5
250.8598	8.02	-2.16	398544.300	2.0	438395.200	3.0	251.1346	17.01	-2.04	147053.700	2.0	186861.000	2.0
250.8610	76.00	.08	11292.053	0.0	51154.766	0.0	251.1365	25.00	-0.09	27201.540	2.5	67008.540	2.5
250.8685	26.00	-3.82	11976.239	4.0	51825.758	3.0	251.1367	26.01	-2.80	2430.080	3.5	42237.050	3.5
250.8692	17.01	-2.30	121499.000	2.0	161348.400	1.0	251.1378	23.03	-0.93	223304.600	4.0	26311.400	4.0
250.8703	22.01	-4.12	225.470	3.5	40074.710	3.5	251.1433	26.02	-1.18	83138.230	5.0	122944.150	4.0
250.8740	74.00	-0.41	6129.972	0.0	45990.619	0.0	251.1468	26.02	-3.30	179760.720	3.0	219566.080	3.0
250.8751	26.00	-1.68	7985.783	2.0	47834.260	3.0	251.1475	25.01	-1.12	49291.310	3.0	89096.560	4.0
250.8776	25.01	-1.76	30679.240	5.0	70527.320	5.0	251.1516	25.01	-2.87	43131.400	2.0	82936.010	3.0
250.8787	27.01	-0.52	40694.900	4.0	80542.800	3.0	251.1535	25.00	-4.08	23719.520	1.5	63523.820	2.5
250.8828	23.00	-2.43	0.000	1.5	39847.240	1.5	251.1586	24.01	-1.60	65618.410	3.5	105421.900	5.5
250.8857	23.01	-2.79	12545.150	4.0	52391.940	3.0	251.1657	23.00	-1.17	323.420	6.5	40125.790	3.5
250.8891	25.00	-3.62	23549.200	2.5	63395.450	3.5	251.1674	27.02	-4.28	85474.100	6.5	125276.200	6.5
250.8905	18.02	-0.90	186657.200	3.0	226503.220	3.0	251.1756	23.00	-7.30	2220.130	2.5	42020.930	3.5
250.8913	23.00	-6.45	2153.200	1.5	41999.100	1.5	251.1757	26.01	.14	21711.890	3.5	61512.670	4.5
250.8920	73.01	.71	9598.245	0.0	49456.032	0.0	251.1769	26.01	-1.70	45044.210	1.5	84844.810	2.5
250.8948	26.00	-3.15	7985.783	2.0	47834.132	2.0	251.1800	42.01	-0.17	12340.601	0.0	52152.688	0.0
250.8980	24.00	-1.09	7927.470	2.0	47772.300	1.0	251.1803	25.02	-4.79	97023.800	3.5	136823.860	3.5
250.8988	24.01	-1.33	49493.000	.5	89337.700	1.5	251.1940	77.00	-0.06	12421.258	0.0	52231.126	0.0
250.8988	30.02	.79	221143.700	3.0	260988.400	4.0	251.1942	26.01	-2.04	23031.300	1.5	62829.160	.5
250.8988	24.02	-3.88	118598.200	3.0	158442.900	4.0	251.1952	23.00	-0.92	137.380	2.5	39935.070	1.5
250.8990	75.00	-0.55	0.000	0.0	39856.675	0.0	251.1954	28.01	-1.98	68965.650	1.5	108763.320	.5
250.9070	44.00	.22	9033.642	0.0	48889.047	0.0	251.1956	24.00	.18	24200.230	6.0	63997.860	6.0
250.9080	69.01	-1.19	0.000	0.0	39855.246	0.0	251.1979	24.01	-1.24	30156.940	3.5	69954.200	2.5
250.9094	25.00	-2.27	23296.670	3.5	63139.700	2.5	251.1986	23.00	-7.70	2153.200	1.5	41950.350	2.5
250.9114	22.01	-3.86	12628.770	1.5	52471.480	2.5	251.1991	27.01	-0.86	25317.720	1.0	65114.800	0.0
250.9116	24.01	-2.36	45730.740	2.5	85573.420	3.5	251.1998	26.02	-2.19	179207.570	5.0	219004.550	4.0
250.9118	26.01	-0.89	26170.190	5.5	66012.830	4.5	251.2050	70.01	-0.31	121293.585	0.0	61101.710	0.0
250.9154	26.01	-1.16	45206.490	.5	85048.560	1.5	251.2056	27.01	-0.98	25861.460	0.0	65657.500	1.0
250.9169	29.01	-3.15	85388.770	2.0	125230.600	3.0	251.2069	23.00	-1.80	323.420	3.5	40119.260	2.5
250.9209	26.02	-1.62	179630.770	4.0	219471.970	4.0	251.2072	26.02	-4.72	77102.430	2.0	116898.220	2.0
250.9309	7.01	-2.57	186652.490	4.0	226492.090	4.0	251.2085	25.02	-3.33	91906.100	2.5	131701.690	1.5
250.9365	26.01	-1.32	43620.980	1.5	83459.700	1.5	251.2118	25.02	-2.94	136888.700	1.5	176683.760	2.5
250.9366	25.01	-4.62	43636.900	4.0	83375.600	3.0	251.2145	24.01	-2.71	38315.000	2.5	78109.640	1.5
250.9398	30.02	-0.28	221143.700	3.0	260981.900	3.0	251.2164	24.01	-3.58	32854.460	4.5	72648.790	3.5
250.9461	28.02	-1.99	71383.700	2.0	111220.900	3.0	251.2204	24.01	-2.68	32855.090	2.5	72648.790	3.5
250.9517	7.01	-4.00	186652.490	4.0	226488.790	3.0	251.2236	28.02	-1.99	98238.200	4.0	138031.400	4.0
250.9550	26.02	-1.42	179579.830	5.0	219415.610	5.0	251.2236	23.03	-0.25	217350.000	3.0	257143.200	2.0
250.9560	42.00	-0.32	12259.943	0.0	52107.566	0.0	251.2253	26.01	-4.46	60956.820	3.5	100749.750	2.5
250.9591	26.02	-4.61	77102.430	2.0	116937.570	1.0	251.2256	18.01	-1.68	160239.350	1.5	200032.230	1.5
250.9606	23.03	-0.89	216905.000	1.0	256739.900	0.0	251.2263	23.01	-4.13	208.890	3.0	40001.660	2.0
250.9615	26.01	-1.12	22409.820	.5	62244.570	1.5	251.2267	24.01	-2.50	34631.140	4.5	74423.840	3.5
250.9619	25.01	-0.79	49291.310	3.0	89126.000	3.0	251.2276	26.00	-0.68	6928.266	5.0	46720.824	4.0
250.9643	26.02	-4.33	139827.170	4.0	179661.480	3.0	251.2293	25.00	-3.95	17568.480	1.5	57360.780	1.5
250.9700	45.00	-0.31	2581.041	0.0	42426.441	0.0	251.2363	26.00	-2.93	415.932	3.0	40207.120	3.0
250.9710	77.00	-0.08	12098.628	0.0	51943.869	0.0	251.2379	26.01	-1.23	45079.910	2.5	84870.840	2.5
250.9710	76.01	1.54	17422.024	0.0	57267.265	0.0	251.2386	9.02	-1.58	417585.350	.5	457376.180	.5
250.9732	22.01	-5.17	93.940	2.5	39926.830	2.5	251.2399	26.01	-1.58	34631.140	4.5	74421.760	5.5
250.9887	26.01	-0.73	39013.280	1.5	78843.720	.5	251.2400	27.01	-1.36	24074.600	2.0	63865.200	1.0
250.9901	22.01	-2.74	12628.770	1.5	52458.980	1.5	251.2400	17.01	-0.98	147053.700	2.0	186844.300	1.0
250.9902	7.01	-3.74	186652.490	4.0	226482.680	3.0	251.2438	27.02	-4.80	132587.000	4.5	172377.000	3.5
250.9909	23.00	-1.79	323.420	3.5	40153.510	2.5	251.2440	27.00	-2.39	4690.180	2.5	44480.140	2.5
250.9940	76.00	.17	12663.231	0.0	52504.821	0.0	251.2445	23.03	-1.95	215957.700	3.0	255747.600	3.0
250.9960	90.01	-0.54	9517.587	0.0	49358.859	0.0	251.2450	23.00	-4.40	2220.130	2.5	42009.930	2.5
250.9984	8.02	-3.30	398474.300	3.0	438303.200	2.0	251.2473	28.01	-3.35	76402.030	2.5	16191.470	2.5
250.9988	24.01	-2.88	49646.250	3.5	89475.080	2.5	251.2514	24.02	-3.89	69780.900	1.0	109569.700	2.0
251.0051	24.00	-3.51	21847.880	2.0	61675.720	2.0	251.2514	26.01	-0.04	36126.410	1.5	75915.210	2.5
251.0059	27.01	.03	28111.900	2.0	67939.600	2.0	251.2527	27.01	-1.24	45378.800	4.0	85167.380	3.0
251.0127	23.00	-4.41	2311.370	3.5	42138.000	2.5	251.2550	75.00	-0.52	14518.354	0.0	54318.557	0.0
251.0127	26.01	-0.88	45044.210	1.5	84870.840	2.5	251.2581	25.02	-2.72	94850.660	1.5	134638.	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
251.3372	17.01	-2.14	119799.000	2.0	159574.200	2.0
251.3385	30.02	-2.81	260418.100	2.0	300193.100	3.0
251.3385	30.02	-3.99	260418.100	2.0	300193.100	2.0
251.3400	26.01	-1.48	25805.320	4.5	65580.090	5.5
251.3444	26.01	-1.47	44753.820	3.5	84527.090	4.5
251.3518	24.01	-1.60	49564.800	1.5	89337.700	1.5
251.3524	25.02	-2.65	97023.800	3.5	136796.610	2.5
251.3537	17.01	-2.64	147125.700	3.0	186898.300	3.0
251.3559	9.01	-3.29	255498.600	2.0	295270.850	3.0
251.3568	14.02	-1.83	214994.650	1.0	254766.750	2.0
251.3619	27.02	-3.27	134079.800	1.5	173851.100	5
251.3619	27.02	-3.27	134079.800	1.5	173851.100	5
251.3619	27.02	-4.47	134079.800	1.5	173851.100	5
251.3621	24.00	-3.80	8095.210	3.0	47866.480	4.0
251.3627	24.01	-1.20	46823.640	5	86594.820	1.5
251.3643	10.01	-1.75	279324.890	1.5	319095.810	2.5
251.3710	77.00	-1.50	6291.287	0.0	46073.123	0.0
251.3789	24.01	-1.22	49706.470	2.5	89475.080	2.5
251.3845	26.00	-1.21	21038.987	2.0	60806.720	3.0
251.3880	73.01	-1.71	11695.340	0.0	51474.486	0.0
251.3930	74.00	-1.75	4758.794	0.0	44537.149	0.0
251.3950	27.00	-3.46	14399.280	5	54165.350	1.5
251.3971	28.01	-3.73	76402.030	2.5	116167.760	1.5
251.4019	25.00	-4.06	23818.870	5	63583.840	1.5
251.4024	26.01	-3.28	45079.910	2.5	84844.810	2.5
251.4062	17.01	-1.73	119809.900	3.0	159574.200	2.0
251.4070	78.00	-1.46	10001.532	0.0	49777.672	0.0
251.4100	27.01	-2.42	21624.400	5.0	61388.100	4.0
251.4160	22.00	-2.47	8602.340	2.0	48365.090	3.0
251.4180	24.01	-3.56	46905.520	1.5	86667.950	1.5
251.4200	25.01	-1.29	48435.960	6.0	88198.070	6.0
251.4219	23.00	-4.15	553.020	4.5	40314.830	3.5
251.4226	26.02	-4.49	142047.000	4.0	181808.700	5.0
251.4299	25.00	-1.13	27248.000	1.5	67008.540	2.5
251.4316	14.00	-1.83	0.000	0.0	39760.285	1.0
251.4336	25.01	-2.24	43311.000	1.0	83070.970	2.0
251.4380	26.01	-1.27	30764.460	3.5	70523.730	3.5
251.4403	8.02	-2.36	398544.300	2.0	438303.200	2.0
251.4415	26.01	-1.83	45289.840	1.5	85048.560	1.5
251.4554	27.00	-4.37	8460.810	2.5	48217.320	3.5
251.4577	28.01	-4.60	99132.780	5.5	138888.930	6.5
251.4607	26.02	-2.15	97041.380	3.0	136797.050	3.0
251.4622	28.01	-1.36	53634.620	1.5	93390.060	2.5
251.4631	30.02	-3.23	260418.100	2.0	300173.400	2.0
251.4631	30.02	-4.19	260418.100	2.0	300173.400	1.0
251.4635	23.01	-1.83	9097.810	4.0	48853.040	5.0
251.4635	25.01	-3.28	38720.200	6.0	78475.430	7.0
251.4637	25.01	-3.94	68417.340	2.0	108172.540	1.0
251.4682	30.02	-3.39	218041.500	4.0	257796.000	5.0
251.4740	25.02	-2.08	109780.400	2.5	149533.980	1.5
251.4764	27.02	-4.90	132623.800	3.5	172377.000	3.5
251.4769	26.02	-4.61	139463.360	5.0	179216.470	6.0
251.4769	25.01	-2.68	68417.340	2.0	108170.450	2.0
251.4793	28.01	-4.41	96535.870	3.5	136288.600	2.5
251.4798	26.02	-4.70	139827.170	4.0	179579.830	5.0
251.4812	26.02	-3.43	97041.380	3.0	136793.820	2.0
251.4839	25.02	-4.14	137935.530	4.5	177687.540	3.5
251.4902	26.01	-1.66	25805.320	4.5	65556.340	4.5
251.4911	25.01	-2.81	49820.160	2.0	89571.030	3.0
251.4928	26.01	-1.54	22939.350	2.5	62689.960	2.5
251.4949	25.01	-1.66	30795.750	4.0	70546.020	4.0
251.4979	30.02	-1.15	220668.300	2.0	260418.100	2.0
251.4998	9.03	-1.28	460640.600	2.0	500390.100	2.0
251.5030	78.00	-1.38	10082.190	0.0	49843.147	0.0
251.5035	24.01	-1.38	46905.520	1.5	86654.430	2.5
251.5040	76.00	-1.05	5081.424	0.0	44842.223	0.0
251.5046	25.01	-2.37	51553.060	5.0	91301.800	5.0
251.5080	42.01	-1.32	22826.078	0.0	62586.245	0.0
251.5151	24.01	-3.27	38362.560	1.5	78109.640	1.5
251.5153	23.00	-2.56	137.380	2.5	39884.430	1.5
251.5181	24.02	-2.28	117922.300	7.0	157668.900	6.0
251.5186	24.01	-3.08	30156.940	3.5	69903.460	3.5
251.5260	23.02	-2.67	101785.810	1.5	141531.170	1.5
251.5274	18.01	-2.33	159393.310	1.5	199138.450	1.5
251.5280	44.00	-1.12	7985.094	0.0	47742.099	0.0
251.5317	26.02	-3.17	179178.620	3.0	218923.080	3.0
251.5327	9.02	-3.67	417970.800	1.5	457715.100	2.5
251.5360	77.00	-1.37	9759.560	0.0	49515.301	0.0
251.5367	28.01	-1.81	76402.030	2.5	116145.690	3.5
251.5386	26.01	-2.99	46967.470	2.5	86710.840	1.5
251.5435	18.01	-1.78	160239.350	1.5	199981.940	1.5
251.5454	11.01	-1.32	293224.120	1.0	332966.420	2.0
251.5454	11.01	-1.32	293224.120	1.0	332966.420	2.0
251.5480	72.01	-1.28	13389.148	0.0	53142.992	0.0
251.5488	24.01	-2.31	65680.150	4.5	105421.900	5.5
251.5502	24.01	-3.08	47040.540	2.5	86782.070	3.5
251.5512	18.01	-3.94	172335.520	2.5	212076.900	2.5
251.5542	9.03	-1.37	417143.400	2.0	456884.300	1.0
251.5551	26.01	-4.59	32909.870	5.5	72650.630	4.5
251.5580	78.00	-1.84	725.918	0.0	40478.182	0.0
251.5594	18.01	-2.06	159706.460	5	199446.540	5
251.5599	9.03	-1.17	618889.000	1.0	658629.000	1.0
251.5599	9.02	-1.89	351236.350	5	390976.350	1.5
251.5619	23.01	-1.98	25191.080	2.0	64930.760	1.0
251.5626	25.00	-1.91	23549.200	2.5	63288.780	3.5
251.5660	42.00	-1.63	12259.943	0.0	52010.943	0.0
251.5678	26.02	-3.86	92523.910	5.0	132262.660	6.0
251.5690	83.00	-1.29	11292.053	0.0	51042.579	0.0
251.5726	23.01	-2.08	8841.970	3.0	48579.960	3.0
251.5726	9.02	-2.42	351519.420	2.5	391257.420	2.5
251.5750	45.00	-1.48	3226.301	0.0	42975.879	0.0
251.5764	30.02	-1.50	218540.300	2.0	258277.700	3.0
251.5835	18.01	-2.64	172335.520	2.5	212071.800	3.5
251.5851	26.00	-1.89	12560.933	3.0	52296.960	2.0
251.5890	24.02	-1.37	56650.200	9.0	96385.900	2.0
251.5897	17.01	-1.87	147125.700	3.0	186861.000	2.0
251.5909	30.02	-1.00	221143.700	3.0	260878.800	3.0
251.5938	24.01	-4.68	31117.590	2.5	70852.240	3.5
251.5955	26.01	-1.24	39109.340	5	78843.720	5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
251.5998	26.01	-4.43	21308.080	1.5	61041.780	2.5
251.6001	26.02	-4.95	139846.180	6.0	179579.830	5.0
251.6010	22.02	-1.48	38425.190	3.0	78158.710	4.0
251.6022	22.01	-4.28	16515.790	5	56249.110	1.5
251.6023	27.02	-4.86	130801.900	4.5	170535.200	4.5
251.6023	27.02	-4.86	130801.900	4.5	170535.200	4.5
251.6064	18.01	-4.27	132481.140	2.5	172213.800	1.5
251.6074	25.02	-2.23	109780.400	2.5	149512.900	1.5
251.6078	26.01	-4.78	63876.380	5.5	103608.820	4.5
251.6109	25.02	-3.87	94906.450	5	134638.390	1.5
251.6113	14.00	-2.26	223.157	2.0	39955.053	2.0
251.6114	25.01	-2.65	43339.100	2.0	83070.970	2.0
251.6120	75.00	-1.46	11695.340	0.0	51439.072	0.0
251.6128	26.01	-1.89	45206.490	5	84938.130	1.5
251.6133	25.01	-2.32	30795.750	4.0	70527.320	5.0
251.6135	23.02	-1.47	63303.120	4.5	103034.650	4.5
251.6182	24.02	-2.19	114354.900	4.0	154085.700	3.0
251.6195	20.02	-1.85	350741.190	3.0	390471.790	4.0
251.6218	23.00	-7.75	2220.130	2.5	41950.350	2.5
251.6226	24.02	-4.12	118598.200	3.0	158328.300	2.0
251.6251	26.00	-2.37	7376.762	4.0	47108.463	4.0
251.6292	7.01	-1.98	170572.610	2.0	210301.680	3.0
251.6305	26.02	-2.16	179194.220	4.0	218923.080	3.0
251.6332	25.01	-4.06	31661.720	3.0	71390.140	3.0
251.6360	70.01	-1.07	32908.268	0.0	72648.210	0.0
251.6404	26.01	-3.03	21308.080	1.5	61035.370	5
251.6420	24.00	-1.21	24200.230	6.0	63927.270	5.0
251.6435	24.02	-2.16	69510.600	0.0	109237.400	1.0
251.6572	26.00	-1.88	7728.058	3.0	47452.702	4.0
251.6580	74.00	-1.01	17018.737	0.0	56755.205	0.0
251.6599	25.01	-1.90	27570.950	5.0	67295.160	4.0
251.6625	26.02	-1.87	179748.170	5.0	219471.970	4.0
251.6635	26.00	-1.61	20641.110	4.0	60364.760	3.0
251.6636	25.00	-3.35	17637.150	5	57360.780	1.5
251.6673	26.02	-2.86	105895.350	1.0	145618.390	2.0
251.6741	25.01	-1.35	30795.750	4.0	70517.720	3.0
251.6763	26.02	-4.30	147161.360	4.0	186882.980	3.0
251.6787	18.01	-3.72	150474.900	1.5	190196.160	5
251.6809	24.02	-1.51	56992.200	3.0	96713.100	3.0
251.6840	8.02	-2.58	398582.600	1.0	438303.200	2.0
251.6848	18.01	-3.54	160239.350	1.5	199959.620	2.5
251.6864	24.01	-3.83	30864.610	2.5	70584.640	2.5
251.6875	28.01	-1.39	73903.250	5	113623.100	5
251.6880	72.01	-1.09	2984.328	0.0	42716.059	0.0
251.6891	23.02	-1.69	63315.050	3.5	103034.650	4.5
251.6917	24.00	-1.77	8095.210	3.0	47814.400	3.0
251.7056	17.01	-3.49	110302.000	1.0	150019.000	0.0
251.7072	9.02	-1.50	351330.800	1.5	391047.540	5
251.7082	9.02	-4.75	426558.910	1.5	466275.500	2.5
251.7124	26.00	-1.72	7376.762	4.0	47092.693	3.0
251.7129	26.01	-1.33	22409.820	5	62125.660	1.5
251.7136	26.00	-6.20	11976.239	4.0	51691.980	3.0
251.7149	23.00	-1.82	323.420	3.5	40038.950	4.5
251.7155	22.00	-2.92	0.000	2.0	39715.437	3.0
251.7217	26.01	-1.99	25981.650	3.5	65696.110	4.5
251.7222	26.00	-4.24	12968.552	2.0	52682.930	2.0
251.7247	26.02	-2.68	179757.980	4.0	219471.970	4.0
251.7262	10.01	-2.82	281720.280	1.5	321434.020	1.5
251.7279	18.03	-1.60	256093.290	5	295806.770	1.5
251.7289	22.01	-2.74	12758.150	2.5	52471.480	2.5
251.7292	24.01	-3.22	38396.360	5	78109.640	1.5
251.7329	27.01	-1.94	28111.900	2.0	67824.600	2.0
251.7349	24.01	-1.53	65709.530	5.5	105421.900	5.5
251.7352	26.01	-2.07	39013.280	1.5	78725.610	1.5
251.7363	26.02	-3.02	105906.230	2.0	145618.390	2.0
251.7382	25.01	-1.42	27583.300	4.0	67295.160	4.0
251.7420	26.02	-4.39	179760.720	3.0	219471.970	4.0
251.7426	22.01	-1.34	1087.210	3.5	40798.370	3.5
251.7441	27.01	-1.98	25317.720	1.0	65028.650	1.0
251.7446	14.03	-0.90	254127.080	2.5	293837.920	3.5
251.7449	9.03	-1.27	502970.400	3.0	542681.200	2.0
251.7450	20.02	-2.71	350741.190	3.0	390451.970	3.0
251.7460	42.00	-1.39	11372.710	0.0	51095.288	0.0
251.7465	28.01	-1.44	55018.710	2.5	94729.250	2.5
251.7509	23.00	-2.63	137.380	2.5	39847.240	1.5
251.7511	25.01	-1.64	52373.180	3.0	92083.000	3.0
251.7528	23.00	-7.50	2311.370	3.5	42020.930	3.5
251.7570	14.03	1.02	254129.030	3.5	293837.920	4.5
251.7570	14.03	-1.53	254129.030	3.5	293837.920	3.5
251.7595	25.01	-4.86	79544.510	2.0	119253.000	3.0
251.7609	24.01	-2.40	361101.820	3.5	75810.100	4.5
251.7610	76.00	-1.47	13308.491	0.0	53088.702	0.0
251.7620	44.00	-1.10	8952.985	0.0	48673.038	0.0
251.7628	26.01	-3.39	61041.780	2.5	100749.750	2.5
251.7658	26.00	-1.92	7985.783	2.0	47693.289	3.0
251.7668	22.01	-1.68	16515.790	5	56223.133	5
251.7679	25.00	-1.70	25281.040	2.5	64988.220	3.5
251.7688	26.02	-4.56	139509.440	5.0	179216.470	6.0
251.7694	25.01	-3.75	27588.230	3.0	67295.160	4.0
251.7701	24.00	-1.83	8307.570	4.0	48014.400	4.0
251.7735	26.02	-3.38	83237.860	3.0	122944.150	4.0
251.7796	27.00	-1.27	4142.660	3.5	43847.980	3.5
251.7812	24.01	-1.14	49564.800	1.5	98269.880	5
251.7843	25.01	-1.81	39808.140	3.0	79512.730	3.0
251.7855	17.02	-1.08	204124.000	1.5	243828.400	2.5
251.7860	72.00	-1.20	0.000	0.0	39716.267	0.0
251.7862	27.00	-1.41	4690.180	2.5	44394.470	3.5
251.7871	24.01	-3.97	49351.960	2.5	89056.100	2.5
251.7904	25.01	-1.86	52379.380	2.0	92083.000	3.0
251.7920	76.00	-1.20	4113.534	0.0	43828.855	0.0
251.7957	25.00	-1.37	25285.430	4.5	64988.220	3.5
251.7961	25.01	-4.48	79550.280	3.0	119253.000	4.0
251.8027	25.01	-2.54	30795.750	4.0	70497.440	4.0
251.8048	22.01	-5.55	225.470	3.5	39926.830	2.5
251.8081	22.01	-3.71	12758.150	2.5	52458.980	1.5
251.8090	22.01	-3.92	16625.250	1.5	56325.940	2.5
251.8093	28.01	-2.32	72985.650	1.5	112686.300	2.5
251.8102	29.01	-3.72	27274.000	2.0	112424.500	2.0
251.8103	26.00	-1.25	704.003	2.0	40404.492	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
251.8103	25.00	-1.74	25287.740	3.5	64988.220	3.5	252.0519	25.01	.15	48333.060	5.0	87995.500	5.0
251.8108	10.01	-2.13	281720.280	1.5	321420.690	2.5	252.0530	45.01	.95	16776.764	0.0	56450.960	0.0
251.8117	25.02	-1.90	72183.330	3.5	111883.600	2.5	252.0531	26.01	-1.65	36252.960	2.5	75915.210	2.5
251.8125	10.01	-2.89	281720.280	1.5	321420.610	1.5	252.0534	30.02	-1.19	221143.700	3.0	260805.900	2.0
251.8140	17.01	-.69	147198.400	4.0	186898.300	3.0	252.0537	22.00	-3.45	0.000	2.0	39662.150	1.0
251.8140	74.01	.69	10485.478	0.0	50197.329	0.0	252.0583	25.01	-2.60	31661.720	3.0	71323.150	2.0
251.8175	25.01	-1.64	39813.380	2.0	79512.730	3.0	252.0611	26.02	-2.26	83237.860	3.0	122898.840	2.0
251.8180	25.01	.28	52383.720	4.0	92083.000	3.0	252.0618	25.01	-.09	49465.130	3.0	89126.000	3.0
251.8190	27.01	-.90	25317.720	1.0	65016.830	2.0	252.0645	24.01	-.63	31219.490	4.5	70879.950	5.0
251.8192	25.01	-1.00	49820.160	2.0	89519.250	2.0	252.0647	25.01	-.69	52379.380	2.0	92039.800	2.5
251.8210	24.02	-1.64	71676.200	4.0	111375.000	3.0	252.0672	26.01	-1.82	26352.800	4.5	66012.830	4.5
251.8212	18.02	-3.03	186657.200	3.0	226355.960	2.0	252.0675	26.01	-1.90	63948.840	4.5	103606.820	4.5
251.8218	25.01	-1.37	49427.320	4.0	89126.000	3.0	252.0685	25.00	-3.44	17568.480	1.5	57228.300	.5
251.8225	23.00	-5.56	2311.370	3.5	42009.930	2.5	252.0759	26.01	-2.33	23031.300	1.5	62689.960	2.5
251.8248	24.02	-2.69	57422.100	4.0	97120.360	3.0	252.0789	8.02	-2.47	398582.800	1.0	438241.000	1.0
251.8253	27.00	-4.16	1406.840	2.5	41104.960	2.5	252.0791	23.02	-1.02	63303.120	4.5	102961.280	3.5
251.8253	26.02	-6.99	139509.440	5.0	179207.570	5.0	252.0792	7.01	-1.21	170607.890	1.0	210266.040	2.0
251.8272	24.01	.54	47040.540	2.5	86738.360	3.5	252.0814	27.02	-4.54	131371.100	5.5	171028.900	5.5
251.8286	28.02	-3.41	103306.100	3.0	143003.700	4.0	252.0824	26.02	-4.11	179757.980	4.0	219415.610	5.0
251.8291	10.01	-3.77	279137.620	3.5	318835.140	2.5	252.0908	26.01	-2.30	61093.440	2.5	100749.750	2.5
251.8314	10.01	-2.38	279137.620	3.5	318834.780	3.5	252.0949	24.01	-1.38	65709.530	5.5	105365.200	4.5
251.8330	26.01	-2.09	64286.440	3.5	103983.350	3.5	252.0987	25.01	-.92	67295.160	4.0	106950.240	3.0
251.8343	8.02	-2.95	398544.300	2.0	438241.000	1.0	252.1015	28.01	-2.31	98467.250	3.5	138121.880	4.5
251.8440	76.00	.04	5081.424	0.0	44788.544	0.0	252.1056	26.00	-2.15	11976.239	4.0	51530.230	5.0
251.8475	25.01	-4.33	79558.380	4.0	119253.000	5.0	252.1089	26.01	.01	27620.390	2.5	67273.860	1.5
251.8493	9.02	-4.30	426558.910	1.5	466253.240	1.5	252.1100	24.02	-2.70	69780.900	1.0	109434.200	2.0
251.8500	74.00	-.71	12098.628	0.0	51804.802	0.0	252.1125	17.01	-3.17	110299.500	2.0	149952.400	1.0
251.8525	24.00	-4.75	7927.470	2.0	47621.310	3.0	252.1158	23.02	-.03	49805.290	3.5	89457.670	2.5
251.8551	7.01	-1.71	170572.610	2.0	210266.040	2.0	252.1165	26.00	-3.31	12560.933	3.0	52213.207	3.0
251.8629	12.02	-3.40	530420.600	1.0	570112.800	0.0	252.1210	28.01	-1.90	94729.250	2.5	134380.820	3.5
251.8645	26.00	-2.11	7728.058	3.0	47420.000	2.0	252.1231	24.01	-3.22	47040.540	2.5	86691.770	2.5
251.8646	26.00	-6.47	11976.239	4.0	51668.175	4.0	252.1284	17.01	-3.42	110302.000	1.0	149952.400	1.0
251.8676	24.01	-2.06	34813.060	5.5	74504.510	4.5	252.1294	25.01	-2.80	39808.140	3.0	79458.380	2.0
251.8705	18.01	-3.25	163506.450	3.5	203197.440	3.5	252.1320	74.00	-.24	2903.671	0.0	42565.435	0.0
251.8712	24.00	-1.00	8095.210	3.0	47786.100	2.0	252.1363	27.00	.41	0.000	4.5	39649.160	3.5
251.8749	26.02	-1.69	179725.310	6.0	219415.610	5.0	252.1370	49.00	-1.05	2177.753	0.0	41838.731	0.0
251.8813	24.01	-.14	46905.520	1.5	86594.820	1.5	252.1379	17.01	-3.54	110303.500	0.0	149952.400	1.0
251.8817	26.02	-4.77	105929.160	3.0	145618.390	2.0	252.1400	41.01	.77	9436.930	0.0	49097.436	0.0
251.8839	25.01	-1.16	49882.150	4.0	89571.030	2.0	252.1418	26.01	-2.67	45289.840	1.5	84938.130	1.5
251.8874	10.01	-2.44	281720.280	1.5	321408.620	2.5	252.1490	72.01	.19	17744.654	0.0	57403.744	0.0
251.8927	27.02	-3.38	131581.600	3.5	171269.100	4.5	252.1500	75.00	.34	14518.354	0.0	54177.287	0.0
251.8932	26.01	-1.59	43620.980	1.5	83308.400	2.5	252.1522	20.02	-4.13	350805.320	4.0	390451.970	3.0
251.8940	29.01	-2.84	71531.500	3.0	111218.800	4.0	252.1526	24.01	-2.75	30307.600	1.5	69954.200	2.5
251.8964	28.01	-4.61	97273.830	2.5	136960.750	2.5	252.1547	23.02	-4.26	106903.350	5.5	146549.620	4.5
251.8978	24.01	-3.32	29952.080	.5	69638.770	1.5	252.1549	23.02	.36	63315.050	3.5	102961.280	3.5
251.8987	27.00	-1.34	7442.410	3.5	47128.960	2.5	252.1592	9.02	-.68	351330.000	1.5	309976.350	1.5
251.9016	22.00	-2.34	0.000	2.0	39686.100	2.0	252.1610	44.00	-.10	9033.642	0.0	48690.845	0.0
251.9020	58.01	-.71	967.890	0.0	40665.868	0.0	252.1628	25.01	-1.94	39813.380	2.0	79458.380	2.0
251.9041	26.01	.20	27314.930	3.5	67000.630	2.5	252.1632	24.00	-4.45	24282.340	4.0	63927.270	5.0
251.9066	26.01	-3.14	22637.190	4.5	62322.500	3.5	252.1643	18.01	-4.41	163506.450	3.5	203151.200	2.5
251.9083	24.01	-1.39	65680.150	4.5	105365.200	4.5	252.1649	26.01	-7.07	23317.600	2.5	62962.260	1.5
251.9091	25.01	-2.08	68417.340	2.0	108102.250	3.0	252.1663	25.01	-.77	36274.290	2.0	75918.730	2.0
251.9101	26.01	-3.29	60807.280	4.5	100492.040	3.5	252.1710	27.02	-3.96	131883.900	2.5	171527.600	3.5
251.9104	26.01	-4.03	2430.080	3.5	42114.790	4.5	252.1729	24.02	-4.25	118423.300	2.0	158066.700	3.0
251.9123	24.01	-1.09	30219.040	3.5	69903.460	3.5	252.1734	25.01	-2.00	43131.400	2.0	82774.730	1.0
251.9184	24.01	-2.77	31168.780	3.5	70852.240	3.5	252.1761	26.00	-5.85	11976.239	4.0	51619.140	3.0
251.9202	14.00	-.96	77.115	1.0	39760.285	1.0	252.1765	24.01	-1.81	34813.060	5.5	74459.900	4.5
251.9246	23.01	-3.68	14461.730	3.0	54144.200	4.0	252.1808	26.01	.27	33501.320	3.5	73143.480	3.5
251.9288	26.02	-2.28	179178.620	3.0	218860.430	2.0	252.1851	28.01	-1.73	93528.440	3.5	133169.920	3.5
251.9290	76.00	-.76	2661.698	0.0	42355.421	0.0	252.1869	24.01	-3.45	12148.000	2.5	51789.210	3.5
251.9309	22.01	-2.79	393.220	4.5	40074.710	3.5	252.1882	8.03	-.26	576684.500	2.5	616325.500	1.5
251.9313	25.01	-.07	52379.380	2.0	92060.800	1.0	252.1887	25.02	-3.86	136823.860	3.5	176464.780	3.5
251.9329	25.01	-.97	49889.860	3.0	89571.030	3.0	252.1920	26.00	-.57	7376.762	4.0	47017.170	3.0
251.9349	28.01	-4.90	93528.440	3.5	133209.300	2.5	252.1980	23.00	-5.36	2112.320	.5	41751.780	.5
251.9403	26.01	-1.34	26932.740	.5	66612.740	1.5	252.1980	23.00	-5.66	2112.320	.5	41751.780	.5
251.9437	24.00	-4.43	21847.880	2.0	61527.340	1.0	252.1991	25.00	-.74	25281.040	2.5	64920.330	3.5
251.9444	24.01	-2.10	49646.250	3.5	89325.600	4.5	252.2005	24.01	-2.81	12303.980	3.5	51943.040	4.5
251.9492	17.02	-.03	202367.600	3.5	242046.200	3.5	252.2011	23.00	-8.10	2311.370	3.5	41950.350	2.5
251.9518	24.00	-1.10	8307.570	4.0	47985.760	5.0	252.2025	23.00	-1.81	323.420	3.5	39962.170	2.5
251.9545	23.00	-2.31	323.420	3.5	40001.180	3.5	252.2040	74.01	.53	4678.136	0.0	44328.578	0.0
251.9552	25.01	-.47	48317.850	4.0	87995.500	5.0	252.2054	30.02	.59	221343.600	2.0	260981.900	3.0
251.9595	26.01	-1.79	33466.500	4.5	73143.480	3.5	252.2060	30.02	-4.02	218040.500	3.0	257678.700	2.0
251.9617	24.01	-.91	48749.570	.5	88426.200	.5	252.2135	24.01	-5.24	12032.720	1.5	51669.750	2.5
251.9625	20.01	-2.91	78955.450	1.5	118631.950	.5	252.2191	26.00	-2.54	415.932	3.0	40052.080	2.0
251.9627	23.00	-.60	323.420	3.5	39999.890	2.5	252.2193	26.01	-.29	21251.550	6.5	60887.660	5.5
251.9631	26.00	-1.13	8154.713	1.0	47831.132	2.0	252.2194	25.00	-4.09	27201.540	2.5	66837.640	2.5
251.9646	25.01	-2.79	68496.370	1.0	108172.540	1.0	252.2238	23.02	-3.53	101785.810	1.5	141421.220	.5
251.9711	10.01	-2.52	279137.620	3.5	318812.770	3.5	252.2246	25.01	-1.53	49427.320	4.0	89062.600	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
252.2850	26.00	-4.43	0.000	4.0	39625.784	4.0	252.5251	23.01	-2.98	14556.090	4.0	54144.200	4.0
252.2853	25.01	-2.70	51553.060	5.0	91178.800	4.0	252.5297	28.01	-2.29	52738.450	2.5	92325.850	3.5
252.2862	28.02	-3.67	75646.900	4.0	115272.500	5.0	252.5304	20.02	-4.29	350805.320	4.0	390392.620	3.0
252.2888	26.01	-4.41	33466.500	4.5	73091.700	4.5	252.5321	7.01	-2.00	187091.370	2.0	226678.400	2.0
252.2947	28.01	-5.00	91800.050	4.5	131424.320	5.5	252.5324	18.01	-4.29	149179.170	3.0	188766.150	2.5
252.2969	27.01	-1.11	45972.100	3.0	85596.030	2.0	252.5359	10.01	-2.72	279218.660	2.5	318805.100	2.5
252.2972	24.00	-9.46	8095.210	3.0	47719.080	4.0	252.5384	26.01	-2.29	21251.550	6.5	60837.590	6.5
252.2973	22.01	-4.43	16625.250	1.5	56249.110	1.5	252.5409	18.01	-1.74	173347.830	1.5	212933.460	2.5
252.3013	25.01	-0.04	48317.850	4.0	87941.080	4.0	252.5411	10.01	-4.39	279218.660	2.5	318804.260	1.5
252.3063	24.01	-4.83	11962.000	5.5	51584.440	1.5	252.5474	7.01	-1.60	187091.370	2.0	226675.990	3.0
252.3075	25.00	-2.22	25265.740	5.5	64888.000	4.5	252.5482	18.01	-1.13	173347.830	1.5	212932.320	1.5
252.3095	25.01	-4.40	66542.260	5.0	106164.200	4.0	252.5490	9.02	-3.91	417970.800	1.5	457555.170	1.5
252.3114	9.02	-2.43	387367.920	2.5	426989.570	3.5	252.5526	24.02	-3.63	119039.900	5.0	158623.700	4.0
252.3186	25.01	-3.91	38720.200	6.0	78340.720	6.0	252.5568	25.01	-2.92	49882.150	4.0	89465.300	4.0
252.3204	24.01	-2.66	38315.000	2.5	77935.240	2.5	252.5580	28.01	-3.75	68955.650	1.5	108548.610	1.5
252.3232	24.01	-0.68	47227.500	3.5	86847.300	4.5	252.5591	22.01	-4.40	1215.580	4.5	40798.370	3.5
252.3410	74.00	-0.01	4758.794	0.0	44387.700	0.0	252.5597	27.02	-4.47	131883.900	2.5	171466.600	2.5
252.3433	23.02	-1.70	49327.740	2.5	88944.380	2.5	252.5597	27.02	-4.47	131883.900	2.5	171466.600	2.5
252.3443	10.01	-4.45	279218.660	2.5	318835.140	2.5	252.5604	26.02	-1.96	179579.830	5.0	219162.420	6.0
252.3456	26.01	-4.63	39109.340	5.5	78725.610	1.5	252.5629	27.00	-2.57	5075.830	1.5	44658.030	1.5
252.3466	10.01	-2.54	279218.660	2.5	318834.780	3.5	252.5673	25.00	-2.19	27201.540	2.5	66783.050	3.5
252.3542	24.01	-2.87	36101.820	3.5	75716.740	3.5	252.5689	18.03	-4.30	256093.290	5.5	295674.540	1.5
252.3601	24.01	-3.53	34659.480	5.5	74273.480	1.5	252.5690	28.01	-4.45	68156.570	1.5	107737.810	1.5
252.3607	9.03	-2.29	502652.400	2.0	542266.300	1.0	252.5696	25.01	-2.87	43131.400	2.0	82712.550	3.0
252.3608	24.01	-0.03	47040.540	2.5	86654.430	2.0	252.5705	26.01	-1.92	45289.840	1.5	84870.840	2.5
252.3612	23.01	-1.57	30613.970	4.0	70227.800	5.0	252.5810	41.01	-0.78	10808.108	0.0	50399.368	0.0
252.3640	24.00	-9.56	8095.210	3.0	47708.590	3.0	252.5834	25.01	-1.12	49517.580	5.0	89096.560	4.0
252.3655	20.02	-2.54	350779.470	3.0	390392.620	3.0	252.5853	25.01	-2.92	43339.100	2.0	82917.780	2.0
252.3662	23.01	-1.65	25191.080	2.0	64804.130	2.0	252.5854	26.01	-1.53	26352.800	4.5	65931.460	3.5
252.3678	9.03	-0.03	502970.400	3.0	542583.200	3.0	252.5862	26.01	-4.35	38164.240	2.5	77742.780	2.5
252.3715	23.02	-1.02	49805.290	3.5	89417.500	3.5	252.5870	26.02	-4.20	179893.560	5.0	219471.970	4.0
252.3754	29.02	-3.57	86133.000	5.5	125744.600	1.5	252.5896	27.00	-4.06	13795.520	2.5	53373.530	3.5
252.3774	24.01	-1.83	34813.060	5.5	74424.350	6.5	252.5929	26.01	-2.27	38660.040	3.5	78237.540	3.5
252.3786	30.02	-4.84	260613.100	5.0	300224.200	4.0	252.5930	90.01	-0.87	9598.245	0.0	49187.624	0.0
252.3786	30.02	-3.17	260613.100	5.0	300224.200	5.0	252.5990	45.00	-1.01	9114.300	0.0	48702.739	0.0
252.3920	30.02	-4.43	260584.100	1.0	300193.100	2.0	252.6010	76.00	-0.86	2661.698	0.0	42249.823	0.0
252.3920	50.00	-0.57	8549.697	0.0	48170.604	0.0	252.6020	73.01	-0.41	5565.369	0.0	45153.337	0.0
252.3939	24.01	-2.12	34813.060	5.5	74421.760	5.5	252.6033	9.02	-2.05	413195.000	2.5	452770.850	3.5
252.3948	23.01	-0.67	11514.760	1.0	51123.310	2.0	252.6060	25.01	-0.96	49889.860	3.0	89465.300	4.0
252.3958	23.01	-1.26	12545.150	4.0	52153.550	5.0	252.6062	17.01	-3.08	146330.000	1.0	185905.400	1.0
252.3982	25.01	-1.00	48333.060	5.0	87941.080	4.0	252.6069	30.02	-4.89	260613.100	5.0	300188.400	6.0
252.3983	30.02	-4.21	260613.100	5.0	300221.100	5.0	252.6071	26.01	-0.26	21581.640	4.5	61156.900	3.5
252.3983	30.02	-2.53	260613.100	5.0	300221.100	6.0	252.6084	18.01	-2.70	161048.640	1.5	200623.700	5.5
252.4061	25.01	-1.86	43311.000	1.0	82917.780	2.0	252.6107	8.03	-3.67	596658.300	2.5	636233.000	3.5
252.4068	20.02	-3.14	350805.320	4.0	390411.990	5.0	252.6108	26.01	-1.34	25981.650	3.5	65556.340	4.5
252.4090	69.01	-1.03	161.315	0.0	39779.554	0.0	252.6177	7.01	-1.55	170666.230	0.0	210239.830	1.0
252.4108	14.00	-0.82	77.115	1.0	39683.163	0.0	252.6190	26.02	-3.99	143883.740	5.0	183457.150	4.0
252.4130	23.01	-2.07	30306.400	3.0	69912.100	4.0	252.6230	23.00	-0.32	553.020	4.5	40125.790	3.5
252.4159	26.01	-1.84	45079.910	2.5	84685.160	3.5	252.6236	24.01	-3.11	38362.560	1.5	77935.240	2.5
252.4195	9.02	-1.63	413143.860	3.5	452748.540	2.5	252.6247	14.02	-2.72	209531.400	2.0	249103.900	2.0
252.4208	28.00	-3.11	879.813	2.0	40484.282	2.0	252.6289	26.01	-0.25	20830.520	2.5	60402.380	2.5
252.4219	27.01	-0.18	40694.900	4.0	80299.200	4.0	252.6305	17.01	-1.82	146333.800	2.0	185905.400	1.0
252.4245	25.01	-2.28	43131.400	2.0	82735.290	2.0	252.6318	26.02	-1.63	97041.380	3.0	136612.780	4.0
252.4294	26.00	-0.49	888.132	1.0	40491.260	0.0	252.6328	24.01	-0.39	49351.960	2.5	88923.200	2.5
252.4300	78.00	-0.37	6533.259	0.0	46148.202	0.0	252.6337	29.01	-3.33	69704.800	4.0	109275.900	3.0
252.4307	28.01	-2.03	92325.850	3.5	131928.770	4.5	252.6350	73.00	-0.02	1935.780	0.0	41518.577	0.0
252.4308	22.01	-4.63	0.000	1.5	39602.900	1.5	252.6419	25.02	-4.88	133736.640	5.5	173306.450	6.5
252.4329	25.00	-1.31	25285.430	4.5	64888.000	4.5	252.6420	26.00	-1.58	7985.783	2.0	47555.584	1.0
252.4340	28.02	-1.39	79143.300	2.0	118745.700	3.0	252.6420	74.00	-0.75	6129.972	0.0	45711.673	0.0
252.4351	24.00	-9.71	8095.210	3.0	47697.440	2.0	252.6465	13.01	-2.62	95348.200	0.0	134917.300	1.0
252.4400	6.03	1.00	410336.000	0.0	449949.373	0.0	252.6468	26.02	-4.97	139625.170	4.0	179194.220	4.0
252.4401	13.02	-1.43	165786.320	2.5	205387.770	1.5	252.6518	18.01	-2.71	179592.130	2.5	219160.400	2.5
252.4423	30.02	-4.88	260623.100	4.0	300224.200	5.0	252.6544	26.01	-1.35	64040.960	3.5	103608.820	4.5
252.4423	30.02	-3.24	260623.100	4.0	300224.200	4.0	252.6593	29.01	-0.76	68447.570	3.0	108014.660	3.0
252.4423	8.03	-2.62	596631.900	3.5	636233.000	3.5	252.6619	24.00	-4.62	20517.400	2.0	60084.090	1.0
252.4467	9.02	-1.00	416168.300	1.5	455768.720	5.5	252.6708	26.01	-5.38	22409.820	5.5	61975.110	1.5
252.4477	13.02	-2.38	165787.510	1.5	205387.770	1.5	252.6732	25.00	-3.96	23549.200	2.5	63114.110	1.5
252.4477	25.00	-0.53	25287.740	3.5	64888.000	4.5	252.6739	27.02	-4.65	91715.100	2.5	131279.900	3.5
252.4483	18.02	-1.80	186903.050	2.0	226503.220	3.0	252.6743	24.01	-3.70	35356.060	1.5	74920.800	5.5
252.4490	83.00	-0.84	11292.053	0.0	50904.014	0.0	252.6770	77.00	-0.38	18954.517	0.0	58530.735	0.0
252.4500	25.01	-2.16	43339.100	2.0	82939.000	1.0	252.6810	75.00	-0.64	13711.778	0.0	53287.369	0.0
252.4544	30.02	-4.31	260613.100	5.0	300212.300	4.0	252.6829	26.01	-2.84	2837.940	2.5	42401.330	1.5
252.4584	23.00	-6.20	2153.200	1.5	41751.780	1.5	252.6830	44.00	-0.14	7420.492	0.0	46995.770	0.0
252.4584	23.00	-4.78	2153.200	1.5	41751.780	1.5	252.6830	76.00	-0.21	12663.231	0.0	52238.509	0.0
252.4621	30.02	-2.59	260623.100	4.0	300221.100	5.0	252.6847	26.02	-4.03	142855.590	4.0	182418.700	4.0
252.4621	22.01	-1.23	983.800	2.5	40581.800	2.5	252.6879	24.01	-3.30	30864.610	2.5	70427.220	3.5
252.4628	22.01	-6.62	16625.250	1.5	56223.133	5.5	252.6887	26.02	-2.80	83358.880	2.0	122921.370	1.0
252.4659	27.01	-0.51	24267.800	1.0	63865.200	1.0	252.6904	25.01	-3.62				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
252.7696	26.01	-4.05	33466.500	4.5	73016.330	3.5	253.0340	42.01	-2.3	24519.886	0.0	64040.267	0.0
252.7738	23.00	-5.32	2311.370	3.5	41860.540	4.5	253.0426	18.01	-3.86	150147.620	2.5	189654.780	2.5
252.7759	7.01	-1.31	187091.370	2.0	226640.220	3.0	253.0447	24.00	-1.14	8307.570	4.0	47814.400	3.0
252.7800	22.02	-4.11	38197.980	2.0	77746.180	3.0	253.0526	23.03	-1.21	215957.700	3.0	255463.300	2.0
252.7842	26.02	-3.73	143883.740	5.0	183431.280	5.0	253.0535	28.01	-1.81	73903.250	5	113408.710	1.5
252.7888	25.01	-4.04	30795.750	4.0	70342.580	3.0	253.0545	27.00	-3.95	3482.820	4.5	42988.120	3.5
252.7899	25.01	-4.68	49882.150	4.0	89428.800	3.0	253.0640	44.00	-2.21	7985.094	0.0	47500.790	0.0
252.7905	23.01	-2.1	12706.150	6.0	52252.700	6.0	253.0641	9.02	-1.75	351330.800	1.5	390834.600	2.5
252.7924	25.01	-3.97	30684.810	1.0	70231.070	2.0	253.0682	25.01	-3.90	67008.930	3.0	106512.100	4.0
252.7936	25.02	-2.28	137137.690	1.5	176683.760	2.5	253.0685	26.00	-3.17	704.003	2.0	40207.120	3.0
252.7985	22.00	-1.85	170.132	3.0	39715.437	3.0	253.0693	25.01	-2.57	31760.930	2.0	71263.920	1.0
252.8003	25.01	-2.7	49517.580	5.0	89062.600	5.0	253.0700	52.00	-1.15	4478.136	0.0	44192.895	0.0
252.8032	14.02	-1.82	209559.330	3.0	249103.900	2.0	253.0721	26.01	-3.53	60989.480	4.5	100492.040	3.5
252.8049	28.00	-2.78	3409.925	2.0	42954.234	2.0	253.0723	25.01	-3.36	32818.100	0.0	72320.620	1.0
252.8074	26.00	-2.54	12968.552	2.0	52512.460	1.0	253.0787	24.01	-2.33	31083.110	1.5	70584.640	2.5
252.8103	26.02	-4.94	86847.110	2.0	126390.570	1.0	253.0789	23.00	-7.60	2153.200	1.5	41654.700	2.5
252.8167	9.02	-4.28	426733.040	2.5	466275.500	2.5	253.0801	17.01	-2.06	110297.000	3.0	149798.300	2.0
252.8186	25.00	-2.56	25281.040	2.5	64823.210	2.5	253.0815	24.01	-3.67	31351.150	2.5	70852.240	3.5
252.8188	26.01	-1.95	44784.780	2.5	84326.910	1.5	253.0961	17.01	-2.14	110299.500	2.0	149798.300	2.0
252.8235	27.01	-4.69	24074.600	2.0	63616.000	2.0	253.0970	41.01	-1.80	14518.354	0.0	54028.897	0.0
252.8315	9.02	-2.94	390834.600	2.5	430374.750	2.5	253.0990	74.00	-1.76	2903.671	0.0	42413.902	0.0
252.8319	18.01	-4.89	173393.380	2.5	212933.460	2.5	253.1003	26.02	-4.48	139680.470	3.0	179178.620	3.0
252.8327	26.02	-3.32	83358.880	2.0	122898.840	2.0	253.1012	24.01	-4.51	35356.060	1.5	74854.080	5
252.8392	18.01	-2.01	173393.380	2.5	212932.320	1.5	253.1013	24.02	-4.61	56650.500	2.0	96148.500	1.0
252.8404	56.01	-5.56	20261.562	0.0	59812.203	0.0	253.1032	27.02	-4.47	131581.600	3.5	171079.300	3.5
252.8434	23.00	-6.25	2220.130	2.5	41758.410	3.5	253.1032	27.02	-4.47	131581.600	3.5	171079.300	3.5
252.8452	13.01	-1.59	110087.500	2.0	149625.500	3.0	253.1082	26.01	-3.61	2837.940	2.5	42334.860	2.5
252.8469	23.01	-0.4	12545.150	4.0	52082.880	4.0	253.1122	17.01	-2.61	110302.000	1.0	149798.300	2.0
252.8471	14.02	-2.27	240330.790	2.0	243868.500	3.0	253.1190	24.00	-3.63	7593.160	2.0	47088.400	1.0
252.8488	24.01	-2.67	36272.660	4.5	75810.100	4.5	253.1190	24.00	-3.63	7593.160	2.0	47088.400	1.0
252.8508	14.00	-4.73	223.157	2.0	39760.285	1.0	253.1231	22.01	-5.56	1087.210	3.5	40581.800	2.5
252.8520	51.00	-7.3	9759.560	0.0	49308.387	0.0	253.1250	41.01	-5.0	14599.011	0.0	54105.184	0.0
252.8524	26.02	-3.07	82382.870	3.0	121919.740	3.0	253.1287	26.01	-1.26	44232.510	4.5	83726.240	3.5
252.8562	25.00	-3.31	27201.540	2.5	66737.820	3.5	253.1290	73.00	-4.97	5565.369	0.0	45070.918	0.0
252.8600	17.01	-4.87	147605.700	3.0	187141.400	2.0	253.1311	23.00	-4.18	2424.890	4.5	41918.240	5.5
252.8612	27.01	-2.4	9812.700	4.0	49348.200	4.0	253.1355	28.01	-4.05	97273.830	2.5	136766.490	2.5
252.8614	25.00	-1.67	25287.740	3.5	64823.210	2.5	253.1356	27.00	-5.66	5075.830	1.5	44568.470	2.5
252.8618	30.02	-4.87	218540.300	2.0	258075.700	3.0	253.1360	20.02	-3.97	350900.040	2.0	390392.620	3.0
252.8630	26.01	-3.09	60956.820	3.5	100492.040	3.5	253.1371	28.01	-4.23	79823.030	3.5	119315.440	2.5
252.8631	30.02	-4.91	221343.600	2.0	260878.800	3.0	253.1418	28.01	-3.83	77332.470	2.5	116824.150	2.5
252.8672	26.01	-4.71	22637.190	4.5	62171.760	3.5	253.1442	24.01	-2.95	49564.800	1.5	89056.100	2.5
252.8683	18.01	-1.57	161089.310	5	200623.700	5	253.1457	26.02	-2.74	97041.380	3.0	136532.450	2.0
252.8702	25.00	-4.32	25285.430	4.5	64819.530	5.5	253.1487	27.02	-4.46	131538.300	4.5	171028.900	5.5
252.8752	25.02	-4.94	137436.700	4.5	176970.010	5.5	253.1508	26.00	-2.89	20874.482	3.0	60364.760	3.0
252.8801	24.00	-7.11	7593.160	2.0	47125.700	3.0	253.1536	11.01	-1.40	293224.120	1.0	332713.960	0.0
252.8831	25.00	-2.35	23549.200	2.5	63081.280	2.5	253.1617	23.01	-1.86	14655.630	5.0	54144.200	4.0
252.8837	23.01	-1.3	12621.570	5.0	52153.550	5.0	253.1667	23.03	-1.39	215957.700	3.0	255445.500	3.0
252.8858	23.00	-7.80	2220.130	2.5	41751.780	1.5	253.1695	28.01	-3.89	78955.450	1.5	118442.810	1.5
252.8875	17.01	-2.51	146333.800	2.0	185865.200	3.0	253.1707	24.01	-2.82	49838.430	4.5	89325.600	4.5
252.8880	44.00	-4.11	9033.642	0.0	48576.839	0.0	253.1714	28.01	-3.48	70358.940	4.5	109846.000	3.5
252.8887	26.02	-3.06	143320.850	6.0	182852.050	7.0	253.1740	45.00	-1.41	5646.026	0.0	45144.553	0.0
252.8903	26.00	-2.87	20641.110	4.0	60172.060	4.0	253.1766	24.00	-3.66	8307.570	4.0	47793.820	5.0
252.8967	27.00	-2.4	816.000	3.5	40345.950	2.5	253.1776	17.02	-1.19	209042.100	5	248528.200	1.5
252.8996	27.02	-2.16	134079.800	1.5	173609.300	1.5	253.1782	24.00	-3.18	20519.600	6.0	60005.600	5.0
252.8996	27.02	-2.16	134079.800	1.5	173609.300	1.5	253.1787	23.00	-2.68	553.020	4.5	40038.950	4.5
252.8996	27.02	-4.19	134079.800	1.5	173609.300	1.5	253.1803	25.01	-5.55	32836.400	1.0	72322.070	0.0
252.9061	25.01	-1.01	43311.000	1.0	82839.490	0.0	253.1832	24.01	-1.70	12303.980	3.5	51789.210	3.5
252.9074	26.01	-0.8	38214.500	1.5	77742.780	2.5	253.1896	25.01	-4.7	32836.400	1.0	72320.620	1.0
252.9101	24.01	-3.17	49646.250	3.5	89174.100	3.5	253.1901	26.02	-2.26	83358.880	2.0	122843.030	1.0
252.9136	26.00	-1.34	704.003	2.0	40231.312	2.0	253.1943	27.02	-4.67	133711.400	2.5	173194.900	2.5
252.9194	28.01	-2.66	98969.440	5.5	138495.840	4.5	253.1943	27.02	-4.67	133711.400	2.5	173194.900	2.5
252.9195	12.02	-1.19	427852.100	0.0	467378.500	1.0	253.1943	27.02	-4.67	133711.400	2.5	173194.900	2.5
252.9213	24.00	-4.80	8095.210	3.0	47621.310	3.0	253.1953	24.01	-4.08	34631.140	4.5	74114.480	3.5
252.9225	26.01	-6.4	26170.190	5.5	65696.110	4.5	253.2029	23.01	-3.64	9097.810	4.0	48579.960	3.0
252.9227	25.01	-1.67	66643.010	4.0	106168.900	4.0	253.2044	24.00	-4.03	20523.690	4.0	60005.600	5.0
252.9304	29.01	-1.25	70841.300	3.0	110365.980	2.0	253.2058	26.01	-2.44	44784.780	2.5	84266.480	2.5
252.9357	8.02	-1.83	327277.180	2.0	366801.040	3.0	253.2061	24.00	-4.70	20523.690	5.0	60005.600	5.0
252.9410	78.00	-1.34	13389.148	0.0	52924.059	0.0	253.2075	28.00	-3.92	879.813	2.0	40361.254	3.0
252.9431	28.02	-1.76	97841.400	2.0	137364.100	1.0	253.2096	13.01	-1.71	110087.500	2.0	149568.600	3.0
252.9437	25.01	-4.88	44745.460	2.0	84268.060	1.0	253.2113	25.01	-2.80	66676.560	2.0	106157.400	3.0
252.9492	24.01	-2.34	12148.000	2.5	51669.750	2.5	253.2120	73.01	-6.6	2581.041	0.0	42073.640	0.0
252.9500	75.00	-2.8	14115.066	0.0	53648.571	0.0	253.2143	9.02	-1.81	416168.300	1.5	455648.670	1.5
252.9512	14.02	-1.66	209599.700	4.0	249121.140	3.0	253.2154	30.02	-3.32	218428.000	0.0	257908.200	1.0
252.9528	25.01	-1.24	66643.010	4.0	106164.200	4.0	253.2154	10.01	-1.30	279324.890	1.5	318805.100	2.5
252.9540	26.01	-3.9	22637.190	4.5	62158.190	4.5	253.2175	27.00	-2.30	5075.830	1.5	44555.710	1.5
252.9554	26.01	-4.00	21812.040	1.5	61332.820	1.5	253.2200	77.00	-4.23	18389.915	0.0	57881.266	0.0
252.9592	9.02	-4.89	426733.040	2.5	466253.240	1.5	253.2205	30.02	-3.66	221143.700	3.0	260623.100	4.0
252.9610	28.01	-4.09	92792.080	3.5	132311.980	4.5	253.2207	10.01	-1.93	279324.890	1.5		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
253.2961	24.01	-2.50	49706.470	2.5	89174.100	3.5	253.5786	28.01	-3.91	78955.450	1.5	118379.110	2.5
253.2969	23.03	.04	225804.100	2.0	265271.600	3.0	253.5803	27.01	-2.61	13261.070	2.0	52688.500	1.0
253.2970	72.01	-.98	2984.328	0.0	42463.674	0.0	253.5825	23.01	-3.60	36425.070	4.0	75848.130	3.0
253.2998	24.01	-2.25	31117.590	2.5	70584.640	2.5	253.5850	23.00	-3.28	0.0000	1.5	39422.660	2.5
253.3056	25.00	-.07	25265.740	5.5	64731.880	6.5	253.5870	90.01	-.62	6936.547	0.0	46370.745	0.0
253.3059	9.02	-1.06	387523.470	3.5	426989.570	3.5	253.5874	22.01	-.94	907.960	1.5	40330.250	.5
253.3092	25.01	-3.50	30684.810	1.0	70150.390	1.0	253.5880	30.02	.06	218540.300	2.0	257962.500	2.0
253.3100	23.01	-7.02	14461.730	3.0	53927.190	3.0	253.5886	27.02	-4.84	133711.400	2.5	173135.500	1.5
253.3130	77.00	.51	9759.560	0.0	49236.413	0.0	253.5915	26.01	-3.57	60402.380	2.5	99824.040	2.5
253.3140	57.01	-.78	6129.972	0.0	45606.669	0.0	253.5962	27.00	.03	1406.840	2.5	40827.770	1.5
253.3176	24.01	-2.98	47227.500	3.5	86691.770	2.5	253.5976	25.02	-2.89	97000.800	4.5	136421.500	5.5
253.3181	13.01	-3.00	95547.900	2.0	135012.100	1.0	253.5976	25.01	-.74	27588.230	3.0	67008.930	3.0
253.3190	23.01	-4.94	26839.820	3.0	66303.880	3.0	253.6010	25.00	-2.06	23719.520	1.5	63139.700	2.5
253.3211	25.01	-.87	43311.000	1.0	82774.730	1.0	253.6014	18.01	-3.33	151087.250	2.5	190507.360	1.5
253.3230	32.00	-.75	483.945	0.0	39959.239	0.0	253.6018	24.01	-.50	49006.150	1.5	88426.200	.5
253.3239	13.01	-3.48	95548.800	1.0	135012.100	1.0	253.6028	25.01	-1.97	27589.030	2.0	67008.930	3.0
253.3240	44.00	-.35	7420.492	0.0	46895.631	0.0	253.6070	18.01	-3.41	159393.010	1.5	198812.550	2.5
253.3242	9.02	-.72	416185.420	2.5	455648.670	1.5	253.6219	26.01	-2.17	61332.820	1.5	100749.750	2.5
253.3284	26.02	-3.65	76956.790	3.0	116419.390	2.0	253.6342	24.01	-3.07	38362.560	1.5	77777.580	.5
253.3303	30.02	.06	221343.600	2.0	260805.900	2.0	253.6350	24.01	-2.38	25033.950	3.5	64448.840	2.5
253.3310	75.00	-.26	13711.778	0.0	53185.826	0.0	253.6391	26.02	-3.34	179748.170	5.0	219162.420	6.0
253.3316	26.02	-1.95	179630.770	4.0	219092.860	5.0	253.6490	78.00	-.47	10082.190	0.0	49506.749	0.0
253.3336	25.01	-1.08	32858.840	2.0	72320.620	1.0	253.6500	27.00	-.73	4142.660	3.5	43555.220	3.5
253.3355	28.01	-4.13	92373.450	2.5	131834.940	2.5	253.6507	23.01	-3.00	25191.080	2.0	64603.530	3.0
253.3359	23.02	-1.06	106441.310	4.5	145902.730	4.5	253.6510	26.02	-4.47	146891.040	3.0	186303.440	3.0
253.3366	23.01	-1.65	12621.570	5.0	52082.880	4.0	253.6520	25.01	-3.90	44521.520	4.0	83933.770	3.0
253.3438	13.01	-2.88	95548.800	1.0	135009.000	0.0	253.6520	80.00	-.47	0.0000	0.0	39424.093	0.0
253.3465	25.01	.14	32787.600	4.0	72247.380	3.0	253.6570	18.01	-1.98	179592.130	2.5	219003.600	2.5
253.3468	24.01	-1.55	31219.490	4.5	70679.220	4.5	253.6625	23.02	-2.35	101785.810	1.5	141196.430	2.5
253.3584	9.02	-4.35	426733.040	2.5	466190.970	3.5	253.6671	26.01	-.24	26170.190	5.5	65580.090	5.5
253.3626	26.01	.14	21430.390	5.5	60887.660	5.5	253.6675	24.01	-4.96	49646.250	3.5	89056.100	2.5
253.3630	74.00	-.41	1613.150	0.0	41082.212	0.0	253.6686	18.01	-3.06	179592.130	2.5	219001.800	1.5
253.3648	9.02	-.41	351519.420	2.5	390976.350	1.5	253.6780	26.00	-2.73	12560.933	3.0	51969.140	3.0
253.3675	24.02	-4.01	69780.900	1.0	109237.400	1.0	253.6794	26.00	-.57	7728.058	3.0	47136.058	2.0
253.3696	23.02	-3.89	102075.000	2.5	141531.170	1.5	253.6804	26.01	-.19	21581.640	4.5	60989.480	4.5
253.3751	24.00	-5.78	7593.160	2.0	47048.480	3.0	253.6834	25.01	-2.81	44899.820	3.0	84307.200	4.0
253.3811	17.01	-3.91	131754.800	1.0	171209.200	2.0	253.6845	26.01	.36	21430.390	5.5	60837.590	6.5
253.3816	24.00	-5.72	7593.160	2.0	47047.470	2.0	253.6850	42.00	-.16	12259.943	0.0	51678.907	0.0
253.3836	25.02	-3.30	109780.400	2.5	149234.400	2.5	253.6864	23.01	-2.64	14461.730	3.0	53868.630	2.0
253.3843	17.02	-.66	205938.500	1.5	245392.400	1.5	253.6877	27.02	-2.69	86283.800	4.5	125690.500	3.5
253.3855	27.01	-.37	24411.500	0.0	63865.200	1.0	253.6897	30.02	-3.25	260805.900	2.0	300212.300	3.0
253.3906	18.02	-1.16	186903.050	2.0	226355.960	2.0	253.6921	22.01	-4.18	29544.370	2.5	68950.390	3.5
253.3937	24.01	-4.33	30864.610	2.5	70317.040	2.5	253.6939	24.01	-2.19	25043.100	1.5	64448.840	2.5
253.3977	15.00	-1.09	18722.650	.5	58174.450	1.5	253.6950	71.01	-.45	11695.340	0.0	51112.751	0.0
253.3980	74.00	-.54	15324.929	0.0	54788.540	0.0	253.6963	9.02	-1.24	417970.800	1.5	457376.180	.5
253.4076	26.01	-2.95	61041.780	2.5	100492.040	3.5	253.6971	26.00	-6.92	11976.239	4.0	51381.480	4.0
253.4083	8.02	-.80	327350.900	3.0	366801.040	3.0	253.7031	27.00	-3.84	5075.830	1.5	44480.140	2.5
253.4100	75.01	.67	14276.381	0.0	53738.123	0.0	253.7040	45.01	1.19	34037.473	0.0	73453.485	0.0
253.4102	25.01	.09	32856.950	3.0	72306.810	2.0	253.7067	9.02	-1.59	355981.900	1.5	395385.660	2.5
253.4170	76.00	-.18	10082.190	0.0	49542.842	0.0	253.7092	27.01	-2.14	47537.100	2.0	86940.460	2.0
253.4173	26.01	-1.07	46967.470	2.5	86416.220	3.5	253.7103	26.01	-2.91	25428.800	5.5	64832.000	4.5
253.4211	23.00	-3.27	553.020	4.5	40001.180	3.5	253.7116	25.01	-4.85	69044.610	2.0	108447.600	2.0
253.4223	25.01	-2.98	32858.840	2.0	72306.810	2.0	253.7116	24.02	-4.07	119039.900	5.0	158442.900	4.0
253.4260	23.01	-1.68	12706.150	6.0	52153.550	5.0	253.7121	25.00	-4.10	25281.040	2.5	64683.950	1.5
253.4283	23.00	-5.32	2311.370	3.5	41758.410	3.5	253.7149	26.01	.11	38458.990	4.5	77861.470	4.5
253.4334	24.01	-1.15	12496.790	4.5	51943.040	4.5	253.7154	28.01	-1.03	68965.650	1.5	108368.050	2.5
253.4351	26.01	-3.29	22637.190	4.5	62083.170	4.5	253.7193	24.01	-2.69	25047.040	2.5	64448.840	2.5
253.4381	17.02	-.75	205946.900	2.5	245392.400	1.5	253.7220	77.00	-.17	5726.684	0.0	45139.900	0.0
253.4395	25.01	-1.18	36274.290	2.0	75719.590	1.0	253.7221	25.02	-3.50	137282.400	2.5	176683.760	2.5
253.4413	26.01	.13	21711.890	3.5	61156.900	3.5	253.7253	26.00	-2.61	8154.713	1.0	47555.584	1.0
253.4460	77.00	-.23	2823.013	0.0	42279.150	0.0	253.7279	27.00	-3.45	13795.520	2.5	53195.980	2.5
253.4470	73.00	-.52	9598.245	0.0	49054.226	0.0	253.7324	25.01	-.87	48317.850	4.0	87717.620	3.0
253.4473	24.01	-.93	36272.660	4.5	75716.740	3.5	253.7325	28.01	-4.58	100609.010	5.5	140008.760	3.5
253.4488	23.02	-.96	106903.350	5.5	146347.200	5.5	253.7328	8.03	-4.93	596658.300	2.5	636058.000	2.5
253.4523	23.01	-.73	11295.510	0.0	50738.820	1.0	253.7330	72.01	-.52	3629.588	0.0	43041.095	0.0
253.4607	22.01	-.74	983.800	2.5	40425.800	1.5	253.7355	25.01	-1.97	46903.260	2.0	86302.550	3.0
253.4709	18.01	-2.47	160239.350	1.5	199679.760	2.5	253.7366	25.01	-1.44	43536.900	4.0	82936.010	3.0
253.4800	75.00	.01	11695.340	0.0	51146.184	0.0	253.7366	26.01	-3.78	2837.940	2.5	42237.050	3.5
253.4820	74.01	.87	20648.325	0.0	60098.858	0.0	253.7399	26.01	-1.16	61093.440	2.5	100492.040	3.5
253.4873	24.00	-3.77	20519.600	6.0	59957.460	7.0	253.7412	9.02	-3.68	390976.350	1.5	430374.750	2.5
253.4921	26.02	-1.57	179725.310	6.0	219162.420	6.0	253.7460	26.00	-1.48	11976.239	4.0	51373.894	5.0
253.4922	27.02	-2.53	70934.100	2.5	110371.200	2.5	253.7475	7.01	-1.05	187091.370	2.0	226488.790	3.0
253.4928	27.02	-4.21	131098.200	4.5	170535.200	4.5	253.7489	27.01	-1.24	24267.800	1.0	63665.000	1.0
253.4928	27.02	-4.21	131098.200	4.5	170535.200	4.5	253.7527	26.02	-1.41	93388.750	4.0	132785.360	4.0
253.4957	28.01	-.29	66571.340	2.5	106007.890	2.5	253.7548	24.01	-3.56	29952.080	.5	69348.360	1.5
253.4964	24.01	-3.14	12148.000	2.5	51584.440	1.5	253.7554	25.01	-.86	43339.100	2.0	82735.290	2.0
253.4970	73.00	-.59	5565.369	0.0	45013.568	0.0	253.7554	17.01	-2.02	146469.000	3.0	185865.200	3.0
253.5015	23.00	-4.78	2424.890	4.5	41860.540	4.5	253.7619	25.02	-2.83	139944.400	3.5	179339.590	2.5
253.5016	25.01	-1.01	43339.										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
253.8498	25.02	-3.66	136888.700	1.5	176270.250	2.5	254.0876	26.02	-1.69	179748.170	5.0	219092.860	5.0
253.8498	26.01	-1.88	21711.890	3.5	61093.440	2.5	254.0891	26.02	-3.27	109570.840	2.0	148915.300	1.0
253.8509	10.01	-1.14	279422.890	.5	318804.260	1.5	254.0892	6.01	-1.43	186427.350	.5	225771.800	1.5
253.8519	24.01	-4.09	38396.360	.5	77777.580	.5	254.0915	26.02	-4.67	77075.300	1.0	116419.390	2.0
253.8537	24.00	-4.38	8307.570	4.0	47688.510	4.0	254.0916	26.00	-1.80	7376.762	4.0	46720.824	4.0
253.8567	26.02	-3.92	84369.920	2.0	123750.390	3.0	254.0921	9.03	-2.09	550918.000	1.0	590262.000	0.0
253.8572	26.02	-4.40	139827.170	4.0	179207.570	5.0	254.0964	23.00	-7.46	2311.370	3.5	41654.700	2.5
253.8582	26.01	-1.21	27620.390	2.5	67000.630	2.5	254.0965	26.01	-1.83	26352.800	4.5	65696.110	4.5
253.8626	25.02	-3.21	94906.450	.5	134286.000	.5	254.0973	26.00	-2.26	888.132	1.0	40231.312	2.0
253.8670	27.01	-4.06	22009.230	4.0	61388.100	4.0	254.0982	26.02	-2.64	179661.480	3.0	219004.530	4.0
253.8670	70.01	-1.73	0.000	0.0	39390.705	0.0	254.1050	25.01	-1.36	52718.800	0.0	92060.800	1.0
253.8683	27.00	-4.16	5075.830	1.5	44454.510	.5	254.1066	24.00	-3.84	21856.940	3.0	61198.680	3.0
253.8689	26.01	-3.34	38858.960	2.5	78237.540	3.5	254.1093	24.01	-4.33	30156.940	3.5	69498.270	4.5
253.8700	26.00	-2.00	7728.058	3.0	47106.463	4.0	254.1096	26.01	-2.24	22810.330	3.5	62151.610	2.5
253.8743	26.02	-3.27	146891.040	3.0	186268.790	2.0	254.1112	28.01	-4.29	99154.810	4.5	138495.840	4.5
253.8786	25.02	-2.28	136888.700	1.5	176265.780	1.5	254.1115	25.01	-2.21	27588.230	3.0	66929.220	2.0
253.8798	26.01	-1.12	21430.390	5.5	60807.280	4.5	254.1167	25.01	-2.89	27589.030	2.0	66929.220	2.0
253.8808	23.01	-2.27	30267.460	2.0	69644.200	3.0	254.1176	26.02	-3.96	144116.640	3.0	183456.690	3.0
253.8876	25.01	-5.53	47073.560	3.0	86449.240	4.0	254.1194	28.01	-3.49	74283.330	.5	113623.100	.5
253.8880	77.00	-6.65	12824.546	0.0	52211.992	0.0	254.1280	44.00	-2.23	8711.012	0.0	48061.261	0.0
253.8902	26.02	-4.74	139846.180	6.0	179221.450	7.0	254.1321	23.01	-3.32	30306.400	3.0	69644.200	3.0
253.8908	26.01	-1.13	21581.640	4.5	60956.820	3.5	254.1333	24.00	-3.28	7750.780	0.0	47088.400	1.0
253.8930	25.02	-1.29	138312.700	4.5	177687.540	3.5	254.1420	41.01	-3.32	1209.863	0.0	40557.944	0.0
253.8934	25.01	-1.90	43696.190	3.0	83070.970	2.0	254.1459	24.01	-4.50	49838.430	4.5	89174.100	3.5
253.8950	24.00	-2.15	7593.160	2.0	46967.700	2.0	254.1480	77.00	-3.32	11775.998	0.0	51123.150	0.0
253.8975	25.00	-4.11	23296.670	3.5	62670.810	4.5	254.1481	20.00	-3.96	0.000	0.0	39335.322	1.0
253.8977	6.01	-1.40	186443.690	1.5	225817.800	2.5	254.1493	26.01	-1.92	61156.900	3.5	100492.040	3.5
253.8990	26.01	.24	21251.550	6.5	60625.470	5.5	254.1499	20.02	-3.31	242547.190	2.0	281882.240	2.0
253.9000	26.02	-3.02	179630.770	4.0	219004.530	4.0	254.1510	26.02	-3.02	179757.980	4.0	219092.860	5.0
253.9020	25.01	-1.39	43339.100	2.0	82712.550	3.0	254.1579	27.02	-4.19	83789.300	.5	123123.100	1.5
253.9048	26.02	-3.32	77102.430	2.0	116475.440	3.0	254.1589	18.01	-3.77	172335.520	2.5	211669.180	2.5
253.9090	26.01	-5.97	23317.600	2.5	62689.960	2.5	254.1598	23.00	-6.35	2424.890	4.5	41758.410	3.5
253.9101	28.01	-1.21	29593.460	.5	68965.650	1.5	254.1599	30.02	-2.88	260878.800	3.0	300212.300	4.0
253.9152	9.02	-1.82	376814.020	2.5	416185.420	2.5	254.1650	76.00	-1.14	13953.751	0.0	53298.271	0.0
253.9166	26.02	-3.73	144085.970	4.0	183457.150	4.0	254.1690	74.00	-1.87	6129.972	0.0	45473.873	0.0
253.9171	23.01	-2.57	14556.090	4.0	53927.190	3.0	254.1749	24.01	-3.11	30307.600	1.5	69638.770	1.5
253.9196	26.02	-4.26	144085.970	4.0	183456.690	3.0	254.1788	26.00	-2.64	18378.187	2.0	57708.760	2.0
253.9200	78.00	-1.05	806.575	0.0	40189.058	0.0	254.1793	22.03	.60	196794.800	1.5	236125.300	2.5
253.9281	13.01	-2.70	95547.900	2.0	134917.300	1.0	254.1813	25.02	-3.06	136935.600	.5	176265.780	1.5
253.9310	74.00	-0.03	19438.462	0.0	58819.239	0.0	254.1832	26.01	-1.11	21711.890	3.5	61041.780	2.5
253.9330	75.00	-2.23	17180.052	0.0	56560.519	0.0	254.1914	27.00	-3.41	3482.820	4.5	42811.440	3.5
253.9339	13.01	-3.18	95548.800	1.0	134917.300	1.0	254.1918	22.00	-2.18	386.874	4.0	39715.437	3.0
253.9358	26.00	-1.46	7376.762	4.0	46744.975	3.0	254.1928	26.00	-4.41	12968.552	2.0	52296.960	2.0
253.9361	25.00	-2.71	25281.040	2.5	64649.200	3.5	254.1928	26.00	-3.02	11976.239	4.0	51304.650	4.0
253.9378	30.02	-7.79	218540.300	2.0	257908.200	1.0	254.1948	6.01	-1.93	186443.690	1.5	225771.800	1.5
253.9378	25.01	-3.46	29951.120	1.0	69319.010	0.0	254.1956	18.01	-1.97	172335.520	2.5	211663.500	3.5
253.9400	26.02	-3.08	179725.310	6.0	219092.860	5.0	254.1967	27.01	-1.00	10708.100	3.0	50035.900	3.0
253.9404	30.02	-4.81	260805.900	2.0	300173.400	1.0	254.2002	26.02	-3.36	84369.920	2.0	123697.180	2.0
253.9440	42.01	.23	24358.571	0.0	63737.332	0.0	254.2020	77.00	-1.17	5726.684	0.0	45065.478	0.0
253.9496	8.02	-1.81	327227.940	1.0	366594.010	2.0	254.2074	9.01	-3.39	256262.460	1.0	295588.610	1.0
253.9515	24.01	-2.55	12303.980	3.5	51669.750	2.5	254.2098	26.00	-2.04	21038.987	2.0	60364.760	3.0
253.9557	9.02	-4.91	387367.920	2.5	426733.040	2.5	254.2100	40.01	-5.52	241.973	0.0	39579.529	0.0
253.9565	24.02	-2.82	69780.900	1.0	109145.900	0.0	254.2165	25.02	-2.06	138362.800	3.5	177687.540	3.5
253.9565	25.01	-2.22	38720.200	6.0	78085.200	5.0	254.2245	27.02	-2.64	83799.600	2.5	123123.100	1.5
253.9586	24.00	-4.95	20519.600	6.0	59884.270	6.0	254.2316	26.01	-3.22	3117.480	1.5	42439.880	.5
253.9588	26.00	-2.44	7728.058	3.0	47092.693	3.0	254.2318	26.01	-0.86	64286.440	3.5	103608.820	4.5
253.9644	25.00	-4.92	25285.430	4.5	64649.200	3.5	254.2331	28.01	-2.14	74300.930	1.5	113623.100	.5
253.9650	40.00	-4.77	564.603	0.0	39940.107	0.0	254.2354	28.01	-1.31	73903.250	.5	113225.060	.5
253.9668	27.02	-1.81	86327.100	3.5	125690.500	3.5	254.2399	24.01	-2.14	30156.940	3.5	69478.060	2.5
253.9690	28.01	-2.88	99132.780	5.5	138495.840	4.5	254.2406	26.01	-1.99	47389.820	1.5	86710.840	1.5
253.9717	26.02	-4.71	147635.950	3.0	186998.600	4.0	254.2408	22.02	.19	38425.190	3.0	77746.180	3.0
253.9730	76.00	.12	13953.751	0.0	53328.015	0.0	254.2430	6.01	-2.13	186427.350	.5	225748.000	.5
253.9759	24.01	-3.18	35356.060	1.5	74718.050	1.5	254.2474	22.02	-2.01	41703.650	2.0	81023.600	2.0
253.9774	25.00	-2.27	23719.520	1.5	63081.280	2.5	254.2491	25.00	-0.50	25265.740	5.5	64585.440	4.5
253.9793	25.00	-4.94	25287.740	3.5	64649.200	3.5	254.2510	76.00	.62	8630.355	0.0	47961.567	0.0
253.9795	26.01	-5.65	22810.430	3.5	62171.760	3.5	254.2549	27.02	-4.94	132623.800	3.5	171942.600	4.5
253.9866	24.00	-4.14	20523.940	5.0	59884.270	6.0	254.2550	23.01	-5.11	26839.820	3.0	66158.600	4.0
253.9886	28.01	-2.61	76727.360	5.5	116087.380	4.5	254.2633	17.02	-1.51	202367.600	3.5	241685.100	2.5
253.9908	28.01	.22	75721.680	5.5	115081.360	4.5	254.2646	24.01	-3.08	38396.360	.5	77713.660	1.5
253.9991	24.01	-4.24	49564.800	1.5	88923.200	2.5	254.2649	25.01	-4.92	31760.930	2.0	71078.180	1.0
254.0018	28.00	-1.60	3409.925	2.0	42767.900	3.0	254.2650	90.01	-1.07	4436.164	0.0	43765.210	0.0
254.0018	22.02	-4.23	38063.500	1.0	77421.480	2.0	254.2657	24.01	-2.89	47464.940	4.5	86782.070	3.5
254.0035	18.01	-3.55	161048.640	1.5	200406.360	.5	254.2660	69.01	-1.24	161.315	0.0	39490.207	0.0
254.0042	23.03	-4.76	226521.600	0.0	265879.200	1.0	254.2668	26.02	-3.68	77102.430	2.0	116419.390	2.0
254.0051	26.01	-1.38	27314.930	3.5	66672.430	3.5	254.2670	42.01	.69	12824.546	0.0	52123.283	0.0
254.0133	13.01	-1.90	106918.200	1.0	146274.400	2.0	254.2676	8.02	-1.04	327277.180	2.0	366594.010	2.0
254.0140	76.00	-4.70	4113.534	0.0	43481.443	0.0	254.2708	24.01	-4.29	48632.360	3.5	87948.700	4.5
254.0192	25.01	-1.21	36364.430	1.0	75719.590	1.0	254.2735	26.01	-3.33	26932.740	.5	66248.670	.5
254.0239	24.												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
254.3593	25.00	-1.50	27201.540	2.5	66504.210	1.5	254.5929	23.00	-1.10	0.000	1.5	39266.600	1.5
254.3607	25.01	-2.22	43528.300	5.0	82830.750	4.0	254.5979	26.00	-2.21	704.003	2.0	39969.830	3.0
254.3610	24.01	-1.12	22342.133	0.0	61656.336	0.0	254.5981	28.01	-0.97	54262.630	3.5	93528.440	3.5
254.3619	25.00	-2.88	23549.200	2.5	62851.470	3.5	254.5981	22.00	-4.05	0.000	2.0	39265.800	2.0
254.3670	75.00	-1.32	15082.956	0.0	54396.232	0.0	254.6014	26.00	-3.98	8154.713	1.0	47420.000	2.0
254.3680	64.01	-0.98	3387.616	0.0	42700.737	0.0	254.6029	26.01	-2.52	54063.530	5	93328.600	1.5
254.3716	22.01	-1.78	29544.370	2.5	68845.140	2.5	254.6030	77.00	-1.13	7017.204	0.0	46294.039	0.0
254.3734	23.00	-1.74	0.000	1.5	39300.480	2.5	254.6044	26.00	-5.88	12560.933	3.0	51825.758	3.0
254.3765	25.00	-0.92	25285.430	4.5	64585.440	4.5	254.6058	25.01	-1.96	29951.120	1.0	69215.730	1.0
254.3789	9.02	-0.99	387259.280	1.5	426558.910	1.5	254.6144	23.03	-0.93	225804.100	2.0	265067.400	2.0
254.3800	76.00	-0.07	10969.423	0.0	50280.690	0.0	254.6170	76.00	0.00	10969.423	0.0	50244.098	0.0
254.3840	11.00	-3.59	0.000	5	39298.840	1.5	254.6171	26.00	-2.00	18378.187	2.0	57641.060	3.0
254.3840	75.00	-0.65	13711.778	0.0	53022.426	0.0	254.6181	9.02	-0.01	387726.840	4.5	426989.570	3.5
254.3872	11.00	-3.89	0.000	5	39298.350	5	254.6196	27.01	-0.16	11651.310	2.0	50913.800	2.0
254.3887	23.01	-3.25	30613.970	4.0	69912.100	4.0	254.6203	25.01	-2.22	48317.850	4.0	87580.230	4.0
254.3914	25.00	-3.09	25287.740	3.5	64585.440	4.5	254.6222	23.03	-0.34	226617.100	1.0	265879.200	1.0
254.3922	26.00	-2.05	20874.482	3.0	60172.060	4.0	254.6222	23.03	-1.25	226617.100	1.0	265879.200	2.0
254.3953	24.00	-4.03	21810.840	1.0	61107.950	2.0	254.6224	28.01	-4.86	67880.160	2.5	107142.210	1.5
254.3970	77.00	-0.59	2823.013	0.0	42131.653	0.0	254.6254	26.02	-4.69	179661.480	3.0	218923.080	3.0
254.3979	17.01	-1.04	131754.800	1.0	171051.500	1.0	254.6307	25.02	-0.87	97239.860	6.5	136500.630	6.5
254.3991	25.01	-1.40	29919.220	2.0	69215.730	1.0	254.6311	23.01	-1.91	11514.760	1.0	50775.470	2.0
254.4024	17.01	-1.89	146469.000	3.0	185765.000	2.0	254.6371	8.03	-3.77	596798.200	1.5	636058.000	2.5
254.4048	27.00	-4.91	1809.330	1.5	41104.960	2.5	254.6407	7.01	-2.17	187461.560	2.0	226720.800	2.0
254.4074	25.00	-2.91	23818.870	5	63114.110	1.5	254.6425	8.02	-1.29	327227.940	1.0	366486.910	1.0
254.4115	30.02	-4.44	260878.800	3.0	300173.400	2.0	254.6459	24.01	-1.35	31168.780	3.5	70427.220	3.5
254.4138	25.02	-4.52	139857.840	4.5	179152.090	3.5	254.6464	25.02	-4.71	137436.700	4.5	176695.060	4.5
254.4164	25.01	-0.55	43536.900	4.0	82830.750	4.0	254.6496	26.02	-3.11	179904.560	6.0	219162.420	6.0
254.4190	79.00	-1.35	21293.585	0.0	60598.826	0.0	254.6496	26.02	-3.43	179904.560	7.0	219162.420	6.0
254.4220	44.00	-0.53	8469.040	0.0	47773.817	0.0	254.6550	7.01	-2.34	187461.560	2.0	226718.600	1.0
254.4220	75.00	-0.26	16534.792	0.0	55839.569	0.0	254.6550	50.00	-0.43	0.000	0.0	39268.815	0.0
254.4232	25.01	-4.66	54938.100	1.0	94230.900	2.0	254.6593	26.02	-2.54	179748.170	5.0	219004.530	4.0
254.4244	17.01	-2.37	147605.700	3.0	186898.300	3.0	254.6600	25.01	-3.20	66901.140	2.0	106157.400	3.0
254.4253	27.00	-0.20	1809.330	1.5	41101.800	5	254.6603	25.00	-0.27	27248.000	1.5	66504.210	1.5
254.4256	24.01	-2.32	12496.790	4.5	51789.210	3.5	254.6608	25.01	-2.39	43131.400	2.0	82387.530	3.0
254.4263	26.02	-3.90	179630.770	4.0	218923.080	3.0	254.6619	27.00	-1.51	4142.660	3.5	43398.620	3.5
254.4264	27.01	-0.79	24074.600	2.0	63366.900	2.0	254.6663	17.01	-1.75	147605.700	3.0	186861.000	2.0
254.4281	23.01	-5.08	13511.710	1.0	52803.750	1.0	254.6666	26.01	-0.02	22810.330	3.5	62065.570	3.5
254.4296	27.02	-3.37	85474.100	6.5	124765.900	5.5	254.6670	44.00	-0.11	7985.094	0.0	47252.058	0.0
254.4303	25.01	-1.04	36427.890	0.0	75719.590	1.0	254.6674	24.00	-4.14	21810.840	1.0	61065.960	1.0
254.4348	24.02	-0.88	57422.100	4.0	96713.100	3.0	254.6700	25.01	-0.88	49517.580	5.0	88772.300	5.0
254.4448	26.02	-4.09	77075.300	1.0	116364.760	0.0	254.6727	27.01	-0.04	25147.200	4.0	64401.500	4.0
254.4470	26.00	-1.37	7728.058	3.0	47017.170	3.0	254.6772	24.00	-6.52	7593.160	2.0	46846.770	3.0
254.4537	25.01	-2.69	43131.400	2.0	82419.480	3.0	254.6779	27.01	-1.70	24411.500	0.0	63655.000	1.0
254.4543	23.00	-4.84	2311.370	3.5	41599.360	4.5	254.6800	73.00	-1.00	0.000	0.0	39264.960	0.0
254.4594	17.02	-1.29	20451.200	2.5	243828.410	2.5	254.6829	25.00	-2.00	27201.540	2.5	66454.270	3.5
254.4599	24.01	-1.25	30219.040	4.5	69506.160	3.5	254.6870	71.01	-0.88	32263.008	0.0	71526.889	0.0
254.4612	25.01	-2.35	46903.260	2.0	86190.180	2.0	254.6876	22.03	-0.76	196880.500	2.5	236132.500	3.5
254.4657	9.02	-0.44	355981.900	1.5	395268.130	1.5	254.6885	26.02	-3.09	83646.980	1.0	122898.840	2.0
254.4658	26.00	-2.23	7985.783	2.0	47271.999	1.0	254.6896	25.02	-3.36	94697.850	3.5	133949.540	4.5
254.4684	26.01	-3.59	60402.380	2.5	99688.200	3.5	254.6915	27.02	-3.50	132489.000	2.5	171740.400	1.5
254.4685	18.01	-1.35	160239.350	1.5	199525.150	1.5	254.6915	27.02	-3.50	132489.000	2.5	171740.400	1.5
254.4704	26.00	-2.08	20641.110	4.0	59926.620	5.0	254.6915	22.01	-3.25	225.470	3.5	39476.870	2.5
254.4708	24.00	-2.15	7593.160	2.0	46878.610	3.0	254.6915	27.02	-4.96	132489.000	2.5	171740.400	1.5
254.4719	23.00	-2.52	137.380	2.5	39422.660	2.5	254.6940	9.02	-4.58	427731.850	2.5	466982.860	2.5
254.4740	75.00	-0.29	11534.025	0.0	50830.770	0.0	254.6941	24.00	-3.59	21856.940	3.0	61107.950	2.0
254.4754	24.01	-0.70	49351.960	2.5	88636.700	1.5	254.6941	17.01	-0.57	131754.800	1.0	171005.800	2.0
254.4795	17.01	-0.92	131767.400	0.0	171051.500	1.0	254.6967	18.01	-2.96	172335.520	2.5	211586.110	2.5
254.4800	41.01	1.07	7178.519	0.0	46474.338	0.0	254.6974	27.02	-4.40	132277.100	3.5	171527.600	3.5
254.4805	29.01	-1.12	68730.720	4.0	108014.660	3.0	254.6986	9.03	-0.47	542266.300	1.0	581516.600	2.0
254.4811	26.01	-5.56	3117.480	1.5	42401.330	1.5	254.7078	23.00	-3.74	0.000	1.5	39248.900	1.5
254.4834	17.01	-2.22	131768.000	2.0	171051.500	1.0	254.7103	28.02	-4.62	83033.800	2.0	122282.300	2.0
254.4851	7.01	-2.33	187437.560	1.0	226720.800	2.0	254.7140	74.00	-0.05	3306.958	0.0	42566.677	0.0
254.4863	27.00	-1.23	4142.660	3.5	43425.710	2.5	254.7180	18.01	-2.24	172829.580	1.5	212076.900	2.5
254.4866	9.03	-2.22	550918.000	1.0	590201.000	1.0	254.7182	28.01	-2.37	32523.540	3.5	71770.830	2.5
254.4886	26.01	-3.71	45044.210	1.5	84326.910	1.5	254.7190	25.01	-0.60	48333.060	5.0	87580.230	4.0
254.4894	24.00	-4.68	20523.690	4.0	59806.270	5.0	254.7199	26.02	-4.94	147635.950	3.0	186882.980	3.0
254.4970	26.01	-0.29	21812.040	1.5	61093.440	2.5	254.7200	77.00	-0.78	6291.287	0.0	45550.081	0.0
254.4993	7.01	-1.94	187437.560	1.0	226718.600	1.0	254.7209	12.00	-1.47	21850.405	0.0	61097.270	1.0
254.5067	27.01	-1.37	13404.600	1.0	52684.500	1.0	254.7230	26.02	-2.02	179757.980	4.0	219004.530	4.0
254.5100	27.00	-3.27	13795.520	2.5	53074.920	1.5	254.7240	28.00	-2.91	3409.925	2.0	42656.317	1.0
254.5103	26.01	-0.24	44446.890	3.5	83726.240	3.5	254.7253	26.02	-2.29	179676.890	2.0	218923.080	3.0
254.5111	24.01	-2.39	30219.040	4.5	69498.270	4.5	254.7335	26.01	-0.38	21711.890	3.5	60956.020	3.5
254.5157	25.01	-0.81	31661.720	3.0	70940.240	2.0	254.7343	22.03	-0.54	196880.500	2.5	236125.300	2.5
254.5159	24.00	-3.90	8307.570	4.0	47586.060	5.0	254.7351	24.01	-4.24	30143.720	5.5	69388.400	6.5
254.5197	24.02	-0.50	70291.800	2.0	109569.700	2.0	254.7353	26.00	-4.76	12968.552	2.0	52213.207	3.0
254.5214	26.02	-3.89	77102.430	2.0	116380.070	1.0	254.7390	28.01	-1.98	94729.250	2.5	133973.330	2.5
254.5217	26.01	-1.15	21711.890	3.5	60989.480	4.5	254.7408	26.02	-3.37	179760.720	3.0	219004.530	4.0
254.5218	24.00	-3.52	7810.820	1.0	47088.400	1.0	254.7409	28.00	-3.64	3409.925	2.0	42653.723	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
254.8100	76.00	-.21	14276.381	0.0	53521.309	0.0	255.0227	25.01	-3.57	67766.510	2.0	106966.940	2.0
254.8102	26.00	-4.74	17550.180	3.0	56783.306	3.0	255.0288	24.01	-1.35	30298.770	5.5	69498.270	4.5
254.8140	90.01	-.50	9517.587	0.0	48761.899	0.0	255.0290	24.00	-4.43	21856.940	3.0	61056.410	4.0
254.8140	75.00	-.39	13711.778	0.0	52956.090	0.0	255.0291	24.01	-1.74	31117.590	2.5	70317.040	2.5
254.8148	26.01	-7.17	22939.350	2.5	62171.760	3.5	255.0301	26.02	-3.86	179893.560	5.0	219092.860	5.0
254.8150	74.00	-1.23	6129.972	0.0	45374.130	0.0	255.0308	25.01	-1.05	36364.300	1.0	75563.490	0.0
254.8194	27.00	-1.59	4690.180	2.5	43921.890	2.5	255.0323	26.02	-4.19	179661.480	3.0	218860.430	2.0
254.8200	72.01	-.17	13389.148	0.0	52632.535	0.0	255.0370	24.00	-2.59	7927.470	2.0	47125.700	3.0
254.8203	27.01	-3.04	22009.230	4.0	61240.800	3.0	255.0370	74.00	-.43	1613.150	0.0	40823.147	0.0
254.8218	23.02	-.13	49327.740	2.5	88559.080	1.5	255.0471	25.02	-4.87	134638.390	5.0	173835.070	.5
254.8220	42.00	-.39	10646.793	0.0	49889.872	0.0	255.0510	40.00	-1.09	564.603	0.0	39772.448	0.0
254.8257	25.01	-.73	31514.350	4.0	70745.080	3.0	255.0512	26.02	-2.09	83646.980	1.0	122843.030	1.0
254.8261	24.01	-2.23	33418.110	2.5	72648.790	3.5	255.0512	25.01	-3.60	67766.510	2.0	106962.560	1.0
254.8279	30.02	-3.65	260981.900	3.0	300212.300	4.0	255.0536	24.01	-2.71	33521.230	3.5	72716.910	4.5
254.8322	26.01	-1.93	21812.040	1.5	61041.780	2.5	255.0554	24.01	-.88	48399.190	1.5	87594.600	1.5
254.8335	27.00	-.79	7442.410	3.5	46671.940	2.5	255.0562	27.01	-.39	45972.100	3.0	85167.380	3.0
254.8370	25.01	-1.97	47073.560	3.0	86302.550	3.0	255.0575	26.01	-.33	21430.390	5.5	60625.470	5.5
254.8376	27.01	-.15	41313.900	3.0	80542.800	3.0	255.0588	23.01	-3.07	208.890	3.0	39403.770	4.0
254.8376	7.01	-2.53	187491.900	3.0	226720.800	2.0	255.0609	25.02	-3.41	135781.090	5.5	174975.650	5.5
254.8378	25.02	-2.81	97271.760	5.5	136500.630	6.5	255.0644	26.02	-4.49	148915.300	1.0	188109.320	0.0
254.8394	18.01	-1.63	179931.770	1.5	219160.400	2.5	255.0652	27.02	-1.36	91715.100	2.5	130909.000	1.5
254.8406	24.01	-.21	47751.980	5.5	86980.420	5.5	255.0668	25.00	-3.50	27201.540	2.5	66395.190	2.5
254.8448	9.03	-.71	542266.300	1.0	581494.100	0.0	255.0680	26.01	.04	26170.190	5.5	65363.660	5.5
254.8450	23.00	-6.96	2311.370	3.5	41539.140	4.5	255.0740	40.01	-.57	0.000	0.0	39204.309	0.0
254.8478	26.02	-4.69	148915.300	1.0	188142.640	2.0	255.0763	27.02	-4.56	131887.100	4.5	171079.300	3.5
254.8481	26.01	-2.11	26352.800	4.5	65580.090	5.5	255.0763	27.02	-4.56	131887.100	4.5	171079.300	3.5
254.8512	12.00	-1.59	21870.464	1.0	61097.270	1.0	255.0763	27.02	-4.51	131887.100	4.5	171079.300	3.5
254.8512	12.00	-1.29	21870.464	1.0	61097.270	2.0	255.0813	26.00	-.79	7985.783	2.0	47177.210	1.0
254.8550	22.02	-.19	38197.980	2.0	77424.200	3.0	255.0830	26.02	-4.98	147406.140	5.0	186597.300	6.0
254.8585	24.01	-1.22	31168.780	3.5	70394.460	4.5	255.0842	9.02	-.34	387367.920	2.5	426558.910	1.5
254.8588	26.01	-.06	21581.640	4.5	60807.280	4.5	255.0850	42.00	-.01	11775.998	0.0	50978.617	0.0
254.8596	25.01	-2.15	38720.200	6.0	77945.710	7.0	255.0861	25.00	-1.60	23296.670	3.5	62487.360	2.5
254.8630	41.01	.41	12985.861	0.0	52222.627	0.0	255.0903	23.00	-6.24	2311.370	3.5	41501.410	4.5
254.8650	23.01	-1.60	13542.680	3.0	52767.360	3.0	255.0911	12.00	-1.60	21870.464	1.0	61060.390	2.0
254.8655	21.00	-3.43	168.340	2.5	39392.950	3.5	255.0913	17.01	-3.41	145468.500	1.0	184658.400	2.0
254.8691	23.01	-.93	11514.760	1.0	50738.820	1.0	255.0938	27.02	-3.13	132277.100	3.5	171466.600	2.5
254.8698	25.01	-2.25	67295.160	4.0	106519.100	5.0	255.0938	27.02	-3.13	132277.100	3.5	171466.600	2.5
254.8701	30.02	-4.42	260988.400	4.0	300212.300	4.0	255.0938	27.02	-4.58	132277.100	3.5	171466.600	2.5
254.8727	22.02	-.07	38197.980	2.0	77421.480	2.0	255.0965	23.03	-1.34	215957.700	3.0	255146.800	2.0
254.8738	26.01	-.23	21812.040	1.5	61035.370	.5	255.1000	74.00	-.99	3306.958	0.0	42507.272	0.0
254.8741	22.01	-.62	29544.370	2.5	68767.660	1.5	255.1015	23.01	-4.56	13511.710	1.0	52700.030	2.0
254.8750	25.01	.25	32787.600	4.0	72010.750	4.0	255.1016	25.01	-3.63	44745.460	2.0	83933.770	3.0
254.8801	25.00	-.32	27281.850	.5	66504.210	1.5	255.1017	26.02	-3.63	179904.560	6.0	219092.860	5.0
254.8807	26.01	-2.08	45044.210	1.5	48266.480	2.5	255.1032	28.01	-2.37	13550.390	3.5	52738.450	2.5
254.8830	76.01	1.15	17422.024	0.0	56655.712	0.0	255.1055	9.02	-4.57	418188.480	.5	457376.180	.5
254.8851	25.01	-1.51	43696.180	3.0	82917.780	2.0	255.1069	28.02	-4.49	143865.200	3.0	183052.700	4.0
254.8878	27.00	-2.24	4690.180	2.5	43911.360	1.5	255.1070	73.00	-.47	1935.780	0.0	41135.018	0.0
254.8880	75.00	-.23	14518.354	0.0	53751.272	0.0	255.1109	26.02	-.88	92523.910	5.0	131710.790	5.0
254.8917	26.01	-.49	32909.870	5.5	72130.440	4.5	255.1129	26.01	-3.43	45079.910	2.5	84266.480	2.5
254.8919	25.01	-.77	43850.420	2.0	83070.970	2.0	255.1133	7.01	-2.38	187491.900	3.0	226678.400	2.0
254.9079	24.00	-3.66	21847.880	2.0	61065.960	1.0	255.1146	26.01	-1.45	22939.350	2.5	62125.660	1.5
254.9079	26.01	.20	30388.550	4.5	69606.640	3.5	255.1151	18.01	-4.66	161048.640	1.5	200234.860	2.5
254.9090	74.01	-.44	3145.643	0.0	42375.329	0.0	255.1160	12.00	-2.77	21911.178	2.0	61097.270	1.0
254.9112	26.02	-4.75	147161.360	4.0	186378.940	4.0	255.1160	12.00	-1.77	21911.178	2.0	61097.270	2.0
254.9125	26.01	-4.22	3117.480	1.5	42334.860	2.5	255.1160	12.00	-.85	21911.178	2.0	61097.270	3.0
254.9151	28.01	-4.94	94705.930	3.5	133922.910	4.5	255.1192	17.02	-1.64	204021.600	.5	243207.200	.5
254.9153	25.01	-4.63	67295.160	4.0	106512.100	4.0	255.1205	26.01	-.40	33466.500	4.5	72651.910	3.5
254.9160	7.01	-1.49	187461.560	2.0	226678.400	2.0	255.1223	26.02	-1.85	83161.480	4.0	122346.610	3.0
254.9167	24.01	-.06	47706.470	2.5	88923.200	2.5	255.1240	90.01	-1.85	1451.835	0.0	40648.461	0.0
254.9185	23.00	-7.54	2220.130	2.5	41436.580	3.5	255.1241	18.02	-2.37	187171.120	1.0	226355.960	2.0
254.9218	22.01	-1.84	29734.450	3.5	68950.390	3.5	255.1288	26.01	-1.29	33466.500	4.5	72650.630	4.5
254.9277	23.01	-.26	11908.270	2.0	51123.310	2.0	255.1290	7.01	-1.20	187491.900	3.0	226675.990	3.0
254.9294	27.00	-2.91	1406.840	2.5	40621.620	1.5	255.1314	25.01	-4.29	67766.510	2.0	106950.240	3.0
254.9306	13.01	-2.25	105424.300	0.0	144638.900	1.0	255.1326	26.02	-4.65	179676.890	2.0	218860.430	2.0
254.9317	7.01	-2.18	187461.560	2.0	226675.990	3.0	255.1336	25.01	-1.73	38901.800	4.0	78085.200	5.0
254.9318	25.01	-.72	49882.150	4.0	89096.560	4.0	255.1350	74.00	-.10	0.000	0.0	39194.936	0.0
254.9345	24.02	-4.78	118423.300	2.0	157637.300	3.0	255.1360	26.02	-2.97	84369.920	2.0	123552.950	1.0
254.9370	75.00	-.49	17099.394	0.0	56324.771	0.0	255.1380	41.01	.37	6129.972	0.0	45324.447	0.0
254.9380	73.00	-.75	3871.561	0.0	43096.784	0.0	255.1400	72.01	.83	17260.709	0.0	56454.877	0.0
254.9392	26.01	-1.13	23031.300	1.5	62244.570	1.5	255.1400	77.00	.05	12824.546	0.0	52018.714	0.0
254.9451	27.01	-4.05	25147.200	4.0	64359.560	3.0	255.1402	25.02	-3.93	137282.400	2.5	176464.780	3.5
254.9457	26.00	-2.18	12968.552	2.0	52180.820	1.0	255.1426	13.01	-1.67	110087.500	2.0	149269.500	3.0
254.9458	26.01	-.08	22939.350	2.5	62151.610	2.5	255.1450	25.02	-1.99	97239.860	6.5	136421.500	5.5
254.9460	78.00	-.69	13389.148	0.0	52613.141	0.0	255.1497	23.00	-6.96	2311.370	3.5	41492.290	3.5
254.9480	44.00	.41	7420.492	0.0	46644.177	0.0	255.1528	25.01	-.28	49882.150	4.0	89062.600	5.0
254.9525	26.00	-1.57	7985.783	2.0	47197.000	2.0	255.1584	28.01	-3.18	77332.470	2.5	116512.060	3.5
254.9527	30.02	-4.12	260981.900	3.0	300193.100	3.0	255.1586	24.01	-.76	31219.490	4.5	70399.040	5.5
254.9532	28.00	-4.18	3409.925	2.0	42621.048	3.0	255.1602	25.01	-1.76	31760.930	2.0	70940.240	2.0
254.9544	24.00	-1.21	7810.82										

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
255.2526	26.02	-2.92	179757.980	4.0	218923.080	3.0
255.2593	27.02	-4.95	131371.100	5.5	170535.200	4.5
255.2593	27.02	-4.95	131371.100	5.5	170535.200	4.5
255.2603	26.00	-3.49	888.132	1.0	40052.080	2.0
255.2617	28.01	.01	75917.630	3.5	115081.360	4.5
255.2626	26.02	-3.02	179759.490	2.0	218923.080	3.0
255.2658	23.00	-.92	137.380	2.5	39300.480	2.5
255.2690	70.01	-.56	31456.433	0.0	70630.794	0.0
255.2706	26.02	-1.97	179760.720	3.0	218923.080	3.0
255.2730	75.00	-.85	14115.066	0.0	53288.813	0.0
255.2770	27.01	-1.04	46320.800	4.0	85482.190	4.0
255.2791	26.00	-4.18	7728.058	3.0	46889.126	4.0
255.2800	24.00	-3.47	7927.470	2.0	47088.400	1.0
255.2832	26.00	-1.57	7728.058	3.0	46889.494	2.0
255.2870	25.02	-3.67	140179.740	2.5	179339.590	2.5
255.2880	27.00	-2.52	14036.280	1.5	53195.980	2.5
255.2942	26.02	-2.93	97041.380	3.0	136200.130	3.0
255.2959	25.01	-.61	46903.260	2.0	86061.750	3.0
255.2967	23.01	-.41	13609.000	4.0	52767.360	3.0
255.3004	27.00	-.59	4690.180	2.5	43847.980	3.5
255.3033	23.01	-1.58	13542.680	3.0	52700.030	2.0
255.3064	23.01	-2.16	26839.820	3.0	56996.700	3.0
255.3064	24.00	-1.64	7810.820	1.0	46967.700	2.0
255.3092	24.01	-2.51	4735.630	2.5	86511.080	1.5
255.3148	28.01	-4.65	98122.630	.5	137278.220	1.5
255.3160	74.00	-.70	4758.794	0.0	43925.944	0.0
255.3167	28.01	-3.68	99340.550	3.5	138495.840	4.5
255.3167	25.01	-.90	29889.310	3.0	69044.610	2.0
255.3169	25.01	-2.84	67008.930	3.0	106164.200	4.0
255.3174	25.01	-3.28	67811.750	3.0	106966.940	2.0
255.3248	15.00	-.82	18722.650	.5	57876.700	.5
255.3256	12.00	-1.52	21850.405	0.0	61004.330	1.0
255.3264	25.01	-.34	32856.950	3.0	72010.750	4.0
255.3333	24.01	-1.79	47354.630	2.5	86507.380	2.5
255.3339	27.00	-.76	4142.660	3.5	43295.320	4.5
255.3343	29.01	-3.25	72724.000	2.0	111876.600	3.0
255.3349	23.03	-3.24	217990.700	1.0	257143.200	2.0
255.3373	28.00	-2.50	1332.153	3.0	40484.282	2.0
255.3400	18.01	-3.40	134741.650	2.5	173393.380	2.5
255.3423	27.00	-2.21	8460.810	2.5	47612.180	1.5
255.3424	26.01	-2.02	64832.000	4.5	103983.350	3.5
255.3424	7.01	-.67	187491.900	3.0	226643.250	4.0
255.3474	26.01	-1.16	33501.320	3.5	72651.910	3.5
255.3494	26.00	-1.55	7985.783	2.0	47136.058	2.0
255.3529	25.02	-.98	97271.760	5.5	136421.500	5.5
255.3557	26.01	-2.19	33501.320	3.5	72650.630	4.5
255.3564	12.00	-2.08	21911.178	2.0	61060.390	2.0
255.3576	24.01	-4.90	35569.020	2.5	74718.050	1.5
255.3590	75.01	.80	17099.394	0.0	56259.948	0.0
255.3604	11.02	-.46	367052.300	1.5	406200.900	2.5
255.3612	25.01	-4.27	67008.930	3.0	106157.400	3.0
255.3622	7.01	-1.91	187491.900	3.0	226640.220	3.0
255.3626	24.01	-2.49	31168.780	3.5	70317.040	2.5
255.3643	27.02	-4.02	132592.400	1.5	171740.400	1.5
255.3643	27.02	-4.02	132592.400	1.5	171740.400	1.5
255.3669	23.01	-.80	11514.760	1.0	50662.360	0.0
255.3682	26.00	-3.36	12560.933	3.0	51708.330	2.0
255.3696	25.00	-2.32	72748.000	1.5	66395.190	2.5
255.3739	26.02	-2.14	93512.640	4.0	132659.170	4.0
255.3743	26.01	-2.59	20516.980	2.5	59663.450	1.5
255.3820	74.00	-.29	4758.794	0.0	43915.822	0.0
255.3923	24.01	-.49	49493.000	.5	88636.700	1.5
255.3941	27.01	-.54	46452.600	2.0	85596.030	2.0
255.3974	24.01	-1.34	48399.190	1.5	87542.120	.5
255.3980	25.01	-3.27	31514.350	4.0	70657.180	5.0
255.4008	24.02	-.33	70291.800	2.0	109434.200	2.0
255.4024	28.01	-4.94	94067.140	1.5	133209.300	2.5
255.4029	26.02	-3.41	147161.360	4.0	186303.440	3.0
255.4034	25.02	-3.83	135732.500	4.5	174874.500	4.5
255.4047	27.02	-3.55	131887.100	4.5	171028.900	5.5
255.4051	26.00	-8.54	12968.552	2.0	52110.300	1.0
255.4130	25.02	-3.51	138128.800	1.5	177269.340	1.5
255.4197	22.01	-3.87	93.940	2.5	39233.440	1.5
255.4224	23.02	-.21	49805.290	3.5	88944.380	2.5
255.4263	25.01	-3.31	67811.750	3.0	106950.240	3.0
255.4269	30.02	-.64	218540.300	2.0	257678.700	2.0
255.4274	24.01	-2.08	47472.750	1.5	86511.080	1.5
255.4289	30.02	-.94	218428.000	0.0	257566.100	1.0
255.4308	27.02	-2.61	86283.800	4.5	125421.600	4.5
255.4348	27.02	-3.94	132592.400	1.5	171729.600	2.5
255.4386	25.02	-2.23	138340.620	2.5	177477.230	2.5
255.4400	77.00	.01	12985.861	0.0	52133.998	0.0
255.4442	26.01	-2.42	31387.980	2.5	70523.730	3.5
255.4460	76.00	-.63	2661.698	0.0	41808.915	0.0
255.4515	24.01	-4.71	47372.750	1.5	86507.380	2.5
255.4520	25.01	-.24	43696.190	3.0	82830.750	4.0
255.4565	12.00	-1.64	21870.464	1.0	61004.330	1.0
255.4565	12.00	-1.64	21870.464	1.0	61004.330	1.0
255.4592	6.01	-.84	177793.540	1.5	216927.000	2.5
255.4620	73.01	.52	2581.041	0.0	41725.806	0.0
255.4626	25.00	-3.33	27201.540	2.5	66334.470	3.5
255.4630	75.01	1.30	20325.695	0.0	59470.307	0.0
255.4640	51.00	-1.23	18309.257	0.0	57453.716	0.0
255.4650	25.02	-3.43	137137.690	1.5	176270.250	2.5
255.4654	25.02	-2.36	140207.090	2.5	179339.590	2.5
255.4662	26.02	-3.03	105906.230	2.0	145038.610	3.0
255.4709	26.00	-4.51	17726.985	2.0	56858.650	2.0
255.4749	26.00	-8.14	12560.933	3.0	51691.980	3.0
255.4763	20.00	-2.72	15157.901	0.0	54288.740	1.0
255.4780	63.01	-.46	16776.764	0.0	55919.078	0.0
255.4860	74.01	.08	0.000	0.0	39141.088	0.0
255.4868	23.00	-1.74	137.380	2.5	39266.600	1.5
255.4900	15.00	-1.18	18747.950	1.5	57876.700	.5
255.4910	73.01	.15	4355.506	0.0	43495.828	0.0
255.4926	25.01	-4.15	31022.050	0.0	70150.390	1.0
255.4929	28.02	-2.25	103306.100	3.0	142434.400	2.0
255.4930	75.00	-.65	13711.778	0.0	52851.794	0.0
255.4936	24.01	-4.48	35356.060	1.5	74484.250	2.5
255.4936	24.01	-3.00	52298.120	3.5	91426.310	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
255.4942	25.02	-2.01	137137.690	1.5	176265.780	1.5
255.4944	26.01	-1.91	25981.650	3.5	65109.710	3.5
255.4953	25.01	-2.58	69044.610	2.0	108172.540	1.0
255.4960	26.02	-3.78	179876.710	4.0	219004.530	4.0
255.4973	9.02	-4.05	418248.560	1.5	457376.180	.5
255.4977	24.01	-2.35	33521.230	3.5	72648.790	3.5
255.4985	28.01	-.27	54262.630	3.5	93990.060	2.5
255.4986	23.01	-3.93	106.630	2.0	39234.050	3.0
255.5045	24.01	-.54	48632.360	3.5	87758.880	3.5
255.5050	73.00	-.52	3871.561	0.0	43009.738	0.0
255.5064	26.01	-.52	22939.350	2.5	62065.570	3.5
255.5069	25.02	-2.48	140557.460	4.5	179683.610	4.5
255.5073	27.00	-.64	5075.830	1.5	44201.920	2.5
255.5089	25.01	-1.50	69044.610	2.0	108170.450	2.0
255.5090	74.01	.63	3145.643	0.0	42283.208	0.0
255.5110	76.00	.02	11292.053	0.0	50429.311	0.0
255.5119	28.01	-2.32	74283.330	.5	113408.710	1.5
255.5119	25.01	-5.24	29919.220	2.0	69044.610	2.0
255.5130	23.00	-7.39	2311.370	3.5	41436.580	3.5
255.5148	26.02	-4.21	144332.210	4.0	183457.150	4.0
255.5192	25.00	-3.39	25285.430	4.5	64409.690	3.5
255.5249	28.02	-3.09	97841.400	2.0	136964.800	3.0
255.5270	76.00	-.12	10969.423	0.0	50104.231	0.0
255.5271	28.01	-4.37	94067.140	1.5	133190.190	1.5
255.5343	25.00	-3.86	25287.740	3.5	64409.690	3.5
255.5347	25.01	-3.61	38720.200	6.0	77842.090	6.0
255.5350	77.00	-.85	4032.876	0.0	43166.458	0.0
255.5360	45.00	-.09	3226.301	0.0	42359.730	0.0
255.5367	28.01	-4.44	94729.250	2.5	133850.830	3.5
255.5377	23.02	-2.80	102075.000	2.5	141196.430	2.5
255.5405	24.00	-3.02	7927.470	2.0	47048.480	3.0
255.5420	42.01	.35	23713.311	0.0	62845.822	0.0
255.5433	25.02	-4.68	140563.030	3.5	179683.610	4.5
255.5443	26.01	-3.41	45206.490	.5	84326.910	1.5
255.5450	26.01	-.63	23031.300	1.5	62151.610	2.5
255.5471	24.00	-2.97	7927.470	2.0	47047.470	2.0
255.5515	22.01	-6.22	907.960	1.5	40027.280	1.5
255.5582	26.01	-1.63	33501.320	3.5	72619.610	2.5
255.5622	26.01	-4.60	54870.620	2.5	93988.300	2.5
255.5630	23.00	-9.06	2311.370	3.5	41428.930	2.5
255.5630	41.01	.44	9436.930	0.0	48566.225	0.0
255.5645	9.02	-1.52	391257.420	2.5	430374.750	2.5
255.5648	26.00	-1.59	8154.713	1.0	47271.999	1.0
255.5691	25.01	-2.87	47073.560	3.0	86190.180	2.0
255.5757	28.01	-3.42	71457.740	3.5	110573.360	2.5
255.5791	25.01	-4.03	55115.800	2.0	94230.900	2.0
255.5791	27.02	-4.61	134079.800	1.5	173194.900	2.5
255.5800	76.00	.21	14276.381	0.0	53403.073	0.0
255.5808	23.01	-2.70	13542.680	3.0	52657.510	4.0
255.5834	21.01	-1.44	0.000	1.0	39114.440	1.0
255.5835	25.02	-1.49	138362.800	3.5	177477.230	2.5
255.5846	23.00	-6.63	2424.890	4.5	41539.140	4.5
255.5880	77.00	-.56	7017.204	0.0	64142.672	0.0
255.5910	23.01	-.84	13490.840	2.0	52604.110	1.0
255.5910	22.01	-2.27	29968.080	4.5	69081.350	4.5
255.5983	22.01	-.91	4628.610	2.5	43740.770	3.5
255.6000	44.00	-.33	9436.930	0.0	48560.561	0.0
255.6013	13.01	-1.80	110087.500	2.0	149199.200	3.0
255.6025	23.00	-2.31	137.380	2.5	39248.900	1.5
255.6061	26.02	-2.77	179893.560	5.0	219004.530	4.0
255.6079	22.01	-.47	29734.450	3.5	68845.140	2.5
255.6080	76.00	-.37	8630.355	0.0	47752.761	0.0
255.6106	9.01	-.40	227228.420	1.0	266336.700	0.0
255.6126	9.02	-4.07	426431.030	.5	465541.000	.5
255.6126	9.02	-3.65	426431.030	.5	465541.000	1.5
255.6136	26.01	-6.02	22939.350	2.5	62049.170	2.5
255.6160	26.02	-4.46	105929.160	3.0	145038.610	3.0
255.6190	92.01	-.55	0.000	0.0	39120.723	0.0
255.6206	26.02	-1.99	83237.860	3.0	122346.610	3.0
255.6269	28.01	-2.07	74300.930	1.5	113408.710	1.5
255.6300	32.00	-.72	16292.819	0.0	55411.858	0.0
255.6304	26.00	-1.59	12560.933	3.0	51668.175	4.0
255.6310	44.00	-.31	8952.985	0.0	48071.871	0.0
255.6326	26.00	-2.12	7985.783	2.0	47092.693	3.0
255.6361	28.01	-2.07	74300.930	1.5	113407.310	2.5
255.6374	18.01	-4.47	134241.650	2.5	173347.830	1.5
255.6385	9.03	-3.40	550918.000	1.0	590024.000	2.0
255.6430	40.00	-1.01	1209.863	0.0	40326.913	0.0
255.6431	23.01	-3.65	13594.730	2.0	52700.030	2.0
255.6449	25.01	-4.30	39808.140	3.0	78913.170	2.0
255.6510	73.01	.33	5242.739	0.0	44358.565	0.0
255.6510	75.00	.60	14115.066	0.0	53230.892	0.0
255.6540	24.00	-4.63	21856.940	3.0	60960.580	4.0
255.6568	24.01	-1.05	48491.390	2.5	87594.600	1.5
255.6572	25.01	.01	27583.300	4.0	66686.450	3.0
255.6572	22.02	0.00	38063.500	1.0	77166.650	2.0
255.6582	9.03	-1.74	551098.000	2.0	590201.000	1.0
255.6582	18.01	-2.91	161048.640	1.5	200151.640	1.5
255.6639	28.01	-1.09	67031.020	.5	106133.140	1.5
255.6710	7.01	-3.97	170572.610	2.0	209673.650	2.0
255.6716	26.02	-2.07	179759.490	2.0	218860.430	2.0
255.6740	74.00	-.84	1613.150	0.0	40725.457	0.0
255.6749	26.00	-7.00	11976.239	4.0	51076.680	4.0
255.6750	42.01	.15	23713.311	0.0	62825.465	0.0
255.6759	27.00	-1.60	4142.660	3.5	43242.950	2.5
255.6778	13.01	-2.57	105424.300	0.0	144524.300	1.0
255.6792	25.01	-3.79	39813.380	2.0	78913.170	2.0
255.6797	26.02	-3.06	179760.720	3.0	218660.430	2.0
255.6828	23.00	-2.96	323.420	3.5	39422.660	2.5
255.6837	27.01	-.24	24267.800	1.0	63366.900	2.0
255.6839	26.02	-3.31	144332.210	4.0	183431.280	5.0
255.6862	26.00	-2.16	6928.266	5.0	46026.980	6.0
255.6894	25.01	-.59	27588.230	3.0	66686.450	3.0
255.6902	23.03	.35	225804.100	2.0	264902.200	3.0
255.6923	24.01	-2.22	33619.130	4.5	72716.910	4.5
255.6940	41.01	.59	7178.519	0.0	46287.767	0.0
255.6947	25.01	-1.80	27589.030	2.0	66686.450	3.0
255.6979	24.01	-1.73	35610.500	4.5	74707.420	5.5
255.7030	25.00	-.59	23296.670	3.5	62392.620	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
255.7049	25.02	-4.27	137599.200	3.5	176695.060	4.5	255.9641	28.01	-1.19	98467.250	3.5	137523.510	3.5
255.7061	22.00	-3.78	170.132	3.0	39265.800	2.0	255.9675	24.01	-0.94	51669.750	2.5	90725.500	3.5
255.7073	6.00	-4.54	80782.510	1.0	119878.000	1.0	255.9675	25.01	-1.08	27589.030	2.0	66644.780	1.0
255.7079	26.01	-0.58	21711.890	3.5	60807.280	4.5	255.9691	24.02	-3.66	120747.800	4.0	159803.300	4.0
255.7084	24.01	-1.61	47751.980	5.5	86847.300	4.5	255.9704	24.01	.15	48632.360	3.5	87687.660	4.5
255.7100	24.00	-6.09	7593.160	2.0	46688.240	3.0	255.9710	75.00	-0.57	13711.778	0.0	52778.704	0.0
255.7127	24.00	-2.14	8095.210	3.0	47189.870	4.0	255.9738	25.01	-3.31	27588.230	3.0	66643.010	4.0
255.7138	27.02	-4.77	86327.100	3.5	125421.600	4.5	255.9769	26.01	-0.70	26055.400	2.5	65109.710	3.5
255.7147	26.01	-1.15	23031.300	1.5	62125.660	1.5	255.9808	28.01	-4.39	97273.630	2.5	136327.550	1.5
255.7151	26.01	-3.49	21308.080	1.5	60402.380	2.5	255.9809	27.02	-3.91	134079.800	1.5	173133.500	1.5
255.7152	24.00	-1.47	7927.470	2.0	47021.750	1.0	255.9856	28.01	-3.02	99442.860	4.5	138495.840	4.5
255.7204	25.01	-1.42	29951.120	1.0	69044.610	2.0	255.9880	75.00	-0.48	15647.559	0.0	54711.890	0.0
255.7209	25.02	-4.93	135781.090	5.5	174874.500	4.5	255.9915	25.02	-3.81	138635.460	2.5	177687.540	3.5
255.7226	12.00	-2.82	21911.178	2.0	61004.330	1.0	255.9916	26.02	-1.69	93512.640	4.0	132564.710	5.0
255.7226	12.00	-1.81	21911.178	2.0	61004.330	2.0	255.9921	26.01	-0.90	27620.390	2.5	66672.390	3.5
255.7226	12.00	-0.89	21911.178	2.0	61004.330	3.0	255.9922	28.01	-1.44	98467.250	3.5	137519.230	2.5
255.7230	26.01	-4.25	47674.780	1.5	86767.870	2.5	255.9993	27.01	-0.60	41737.800	2.0	80788.700	2.0
255.7266	26.00	-2.43	11976.239	4.0	51068.770	5.0	256.0095	25.01	-2.79	46903.260	2.0	85952.600	3.0
255.7275	23.01	-3.65	13511.710	1.0	52604.110	1.0	256.0120	74.00	.44	15002.299	0.0	54062.968	0.0
255.7304	27.01	-2.49	47848.500	1.0	86940.460	2.0	256.0121	25.02	-2.95	140179.740	2.5	179228.690	1.5
255.7347	27.02	-4.92	133711.400	2.5	172802.700	2.5	256.0136	23.01	-3.56	18293.870	2.0	57342.590	2.0
255.7367	27.01	-1.24	13593.500	0.0	52684.500	1.0	256.0141	25.00	-3.36	23719.520	1.5	62768.160	.5
255.7372	22.01	-3.73	983.800	2.5	40074.710	3.5	256.0147	10.01	-3.68	279137.620	3.5	318186.170	4.5
255.7419	27.01	-0.61	46786.300	1.0	85876.500	1.0	256.0150	23.01	-1.80	13609.000	4.0	52657.510	4.0
255.7456	24.01	-1.38	30298.770	5.5	69388.400	6.5	256.0150	49.00	-0.34	0.000	0.0	39060.211	0.0
255.7459	24.01	-2.67	30864.610	2.5	69954.200	2.5	256.0155	28.01	-0.32	55018.710	2.5	94067.140	1.5
255.7504	26.01	-1.38	22637.190	4.5	61726.090	3.5	256.0155	25.01	-2.75	43339.100	2.0	82387.530	3.0
255.7525	25.01	-1.29	43850.420	2.0	82939.000	1.0	256.0190	24.00	-4.96	21856.940	3.0	60904.840	3.0
255.7541	25.01	-0.05	27588.230	3.0	66676.560	2.0	256.0240	12.00	-2.13	21911.178	2.0	60958.310	2.0
255.7560	74.00	-0.23	13227.833	0.0	52327.600	0.0	256.0243	7.01	-0.63	187437.560	1.0	226484.640	2.0
255.7573	12.00	-1.65	21870.464	1.0	60958.310	2.0	256.0260	44.00	.20	8711.012	0.0	47769.545	0.0
255.7594	25.01	-0.68	27589.030	2.0	66676.560	2.0	256.0264	21.01	-0.97	67.680	2.0	39114.440	1.0
255.7654	25.01	-2.96	39826.570	1.0	78913.170	2.0	256.0280	26.01	-0.07	25787.600	1.5	64834.120	1.5
255.7700	13.01	-2.09	105438.400	1.0	144524.300	1.0	256.0290	26.02	-3.97	179876.710	4.0	218923.080	3.0
255.7703	25.01	-2.74	46903.260	2.0	85899.120	0.0	256.0348	23.01	-6.58	26839.620	3.0	65885.300	2.0
255.7710	73.01	.93	9598.245	0.0	48695.719	0.0	256.0370	25.02	-1.54	140294.440	3.5	179339.590	2.5
255.7721	25.01	-0.69	43850.420	2.0	82936.010	3.0	256.0370	57.01	.10	19115.832	0.0	58172.687	0.0
255.7747	24.00	-6.79	7593.160	2.0	46678.350	1.0	256.0426	25.02	-2.93	94707.200	4.5	133751.500	3.5
255.7770	76.00	-0.42	8630.355	0.0	47726.912	0.0	256.0456	26.01	-0.79	21581.640	4.5	60625.470	5.5
255.7779	26.01	-2.26	47626.140	.5	86710.840	1.5	256.0469	25.01	-1.54	53017.160	1.0	92600.800	1.0
255.7785	25.01	-4.18	78685.630	4.0	106950.240	3.0	256.0479	22.01	-7.58	983.800	2.5	40027.280	1.5
255.7788	25.02	-2.25	137599.200	3.5	176683.760	2.5	256.0520	28.01	-3.34	92792.080	3.5	131834.940	2.5
255.7831	24.00	-0.419	7593.160	2.0	46677.060	2.0	256.0531	10.01	-2.07	279137.620	3.5	318180.310	2.5
255.7865	28.01	-1.66	29070.930	1.5	68154.310	1.5	256.0538	26.00	-3.19	17550.180	3.0	56592.760	4.0
255.7867	25.01	-1.94	31661.720	3.0	70745.080	3.0	256.0558	26.00	-1.59	8154.713	1.0	47197.000	2.0
255.7877	17.02	-0.25	204124.000	1.5	243207.200	.5	256.0576	27.02	-4.42	86327.100	3.5	125369.100	2.5
255.7897	23.03	-0.36	226796.300	2.0	265879.200	1.0	256.0580	26.00	-2.98	21715.735	5.0	60757.680	4.0
255.7897	23.03	.22	226796.300	2.0	265879.200	2.0	256.0589	25.00	-3.10	23719.520	1.5	62761.330	2.5
255.7929	9.03	.24	542583.200	3.0	581665.600	4.0	256.0658	24.01	-2.69	30307.600	1.5	69348.360	1.5
255.7940	9.02	-4.84	442278.930	2.5	481361.170	1.5	256.0673	26.01	-2.54	31483.200	3.5	70523.730	3.5
255.8060	8.02	-0.23	331820.200	3.0	370900.600	2.0	256.0676	26.00	-5.56	11976.239	4.0	51016.720	5.0
255.8060	75.00	-0.11	17180.052	0.0	56272.177	0.0	256.0693	24.00	-1.11	7927.470	2.0	46967.700	2.0
255.8062	25.01	-1.23	43339.100	2.0	82419.480	3.0	256.0709	25.01	-1.85	67910.260	4.0	106950.240	3.0
255.8081	24.01	-3.39	35356.060	1.5	74436.140	2.5	256.0710	25.01	-4.05	67845.930	5.0	106885.900	4.0
255.8090	76.00	-0.14	15082.956	0.0	54174.622	0.0	256.0751	26.02	-1.96	105929.160	3.0	144968.500	4.0
255.8173	20.00	-2.85	15210.063	1.0	54288.740	1.0	256.0767	25.01	-0.31	43696.190	3.0	82735.290	2.0
255.8183	26.02	-2.45	84671.870	3.0	123750.390	3.0	256.0775	26.00	-1.33	21715.735	5.0	60754.710	4.0
255.8226	23.01	-3.98	16421.510	4.0	55499.380	5.0	256.0783	24.01	-3.26	30864.610	2.5	69903.460	3.5
255.8236	22.00	-3.89	0.000	2.0	39077.713	1.0	256.0797	27.00	-3.36	14036.280	1.5	53074.920	1.5
255.8284	25.01	.33	43528.300	5.0	82605.290	4.0	256.0799	27.02	-3.59	132489.000	2.5	171527.600	3.5
255.8312	26.02	-4.74	97041.380	3.0	136117.940	2.0	256.0839	24.02	-2.47	120765.300	5.0	159803.300	4.0
255.8314	23.00	-7.32	2424.890	4.5	41501.410	4.5	256.0847	18.01	-4.08	163506.450	3.5	202544.320	2.5
255.8329	18.02	-0.01	242923.960	1.0	282000.220	1.0	256.0942	12.00	-1.55	21850.405	0.0	60886.830	1.0
255.8344	24.01	-1.45	31351.150	2.5	70427.260	3.5	256.0986	26.01	-6.43	22939.350	2.5	61975.110	1.5
255.8447	30.02	-0.73	221343.600	2.0	260418.100	2.0	256.0992	24.01	-1.17	35707.660	5.5	74743.330	6.5
255.8469	25.01	-3.14	67811.750	3.0	106885.900	4.0	256.1047	25.02	-4.29	137660.240	3.5	176695.060	4.5
255.8538	23.01	-4.83	18269.490	1.0	57342.590	2.0	256.1065	25.02	-2.18	138234.790	1.5	177269.340	1.5
255.8540	44.00	-0.31	7985.094	0.0	47069.885	0.0	256.1070	25.02	-3.95	137935.530	4.5	176970.010	5.5
255.8606	25.01	.27	27570.950	5.0	66643.010	4.0	256.1105	25.01	-2.54	44899.820	3.0	83933.770	3.0
255.8617	24.01	-1.82	49564.800	1.5	88636.700	1.5	256.1125	24.01	-1.22	48632.360	3.5	87666.000	2.5
255.8622	18.01	-2.79	179931.770	1.5	219003.600	2.5	256.1232	9.04	-0.52	784100.000	.5	823132.000	1.5
255.8740	18.01	-2.12	179931.770	1.5	219001.800	1.5	256.1254	25.01	-1.85	31514.350	4.0	70546.020	4.0
255.8798	26.00	-6.10	12560.933	3.0	51630.070	2.0	256.1261	25.02	-3.75	135944.080	4.5	174975.650	5.5
255.8826	28.01	-3.18	98467.250	3.5	173535.960	3.5	256.1273	26.00	-2.28	7985.783	2.0	47017.170	3.0
255.8847	25.01	-0.15	43536.900	4.0	82605.290	4.0	256.1332	24.00	-2.55	8095.210	3.0	47125.700	3.0
255.8865	25.00	-4.33	23719.520	1.5	62787.630	1.5	256.1377	25.02	-1.97	136888.700	1.5	175918.500	.5
255.8880	42.01	.46	24681.201	0.0	37640.798	0.0	256.1382	24.00	-1.05	24897.550	4.0	63927.270	5.0
255.8898	23.00	-1.87	323.420	3.5	39391.020	4.5	256.1386	24.01	-2.3				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
256.1950	18.01	-3.14	161089.310	.5	200110.380	.5	256.4416	10.01	-1.97	279218.660	2.5	318202.210	1.5
256.1955	9.04	-4.49	784361.000	1.5	823382.000	2.5	256.4417	26.02	-4.45	140693.360	3.0	179676.890	2.0
256.1960	74.00	-1.09	4758.794	0.0	43791.410	0.0	256.4427	25.02	-2.63	137282.400	2.5	176265.780	1.5
256.1991	24.01	-2.27	30150.160	6.5	69170.600	5.5	256.4446	25.01	-4.57	31514.350	4.0	70497.440	4.0
256.2002	25.01	-2.82	67865.630	4.0	106885.900	4.0	256.4459	25.02	-2.14	136935.600	.5	175918.500	.5
256.2051	10.01	-1.04	279137.620	3.5	318157.150	3.5	256.4497	22.01	-3.36	29968.080	4.5	68950.390	3.5
256.2080	42.01	-4.41	27584.872	0.0	66615.659	0.0	256.4512	9.02	-4.04	426558.910	1.5	465541.000	.5
256.2087	18.01	-3.33	151087.250	2.5	190106.230	1.5	256.4512	9.02	-3.18	426558.910	1.5	465541.000	1.5
256.2091	26.01	-4.33	25787.600	1.5	64806.520	.5	256.4518	27.02	-4.77	129706.900	3.5	168688.900	2.5
256.2094	22.01	-5.04	907.960	1.5	39926.830	2.5	256.4560	26.02	-2.70	83646.980	1.0	122628.340	2.0
256.2100	73.00	-4.25	3871.561	0.0	42902.044	0.0	256.4561	26.00	-2.10	8154.713	1.0	47136.058	2.0
256.2104	24.01	-3.18	25043.100	1.5	64061.820	1.5	256.4563	27.00	-1.54	15184.040	2.5	54165.350	1.5
256.2123	27.00	-4.73	1809.330	1.5	40827.770	1.5	256.4580	44.00	-4.43	9114.300	0.0	48107.040	0.0
256.2123	10.01	-4.51	279137.620	3.5	318156.060	4.5	256.4647	25.02	-4.15	94771.470	2.5	133751.500	3.5
256.2127	18.03	-4.23	250219.450	.5	289237.820	1.5	256.4680	74.00	.22	16857.422	0.0	55848.641	0.0
256.2129	23.00	-4.74	323.420	3.5	39341.760	3.5	256.4691	26.01	-3.34	61512.670	4.5	100492.040	3.5
256.2138	14.02	-1.62	214989.270	2.0	254007.480	3.0	256.4735	27.01	-3.78	24886.500	2.0	63865.200	1.0
256.2160	26.01	-7.34	23031.300	1.5	62049.170	2.5	256.4807	27.02	-3.67	132489.000	2.5	171466.600	2.5
256.2223	26.00	-1.82	7728.058	3.0	46744.975	3.0	256.4807	27.02	-3.67	132489.000	2.5	171466.600	2.5
256.2230	26.00	-1.05	8154.713	1.0	47171.520	0.0	256.4807	27.02	-4.98	132489.000	2.5	171466.600	2.5
256.2259	25.01	-4.06	43696.190	3.0	82712.550	3.0	256.4824	14.00	-4.46	6298.850	2.0	45276.188	1.0
256.2259	12.00	-1.67	21870.464	1.0	60886.830	1.0	256.4827	26.00	-6.26	12968.552	2.0	51945.860	1.0
256.2259	12.00	-1.37	21870.464	1.0	60886.830	2.0	256.4840	9.03	-3.35	542583.200	3.0	581560.300	3.0
256.2276	25.01	-1.60	62572.200	2.0	101588.300	3.0	256.4843	23.00	-1.49	323.420	3.5	39300.480	2.5
256.2308	9.01	-4.33	256262.460	1.0	295278.080	1.0	256.4871	26.01	-3.85	45289.840	1.5	84266.480	2.5
256.2310	3.00	-2.20	0.000	0.0	39027.284	0.0	256.4880	17.01	-1.58	119809.900	3.0	158786.400	3.0
256.2363	24.01	-2.42	25047.040	2.5	64061.820	1.5	256.4935	12.00	-2.85	21911.178	2.0	60886.830	1.0
256.2364	28.01	-3.95	97273.830	2.5	136288.600	2.5	256.4935	12.00	-1.84	21911.178	2.0	60886.830	2.0
256.2366	14.02	-2.37	214989.270	2.0	254004.000	2.0	256.4935	12.00	-9.2	21911.178	2.0	60886.830	3.0
256.2409	24.01	-1.12	48399.190	1.5	87413.270	2.5	256.4936	25.01	-2.59	44899.820	3.0	83875.460	4.0
256.2410	41.01	.44	6129.972	0.0	45155.733	0.0	256.4936	25.01	-2.38	67910.260	4.0	106889.900	4.0
256.2421	24.02	-2.74	114715.900	1.0	153729.830	1.0	256.4996	28.01	-2.69	98561.220	2.5	137535.960	3.5
256.2425	9.02	-4.23	356371.820	2.5	395385.660	2.5	256.5016	26.02	-4.80	142855.590	4.0	181830.020	3.0
256.2439	9.01	-3.75	256262.460	1.0	295276.080	2.0	256.5051	23.02	-1.78	107165.900	1.5	146139.800	2.5
256.2480	17.02	-1.04	205938.500	1.5	244951.500	.5	256.5071	27.01	-5.76	22414.500	3.0	61388.100	4.0
256.2482	25.01	-4.68	31514.350	4.0	70527.320	5.0	256.5123	26.02	-3.69	147406.140	5.0	186378.940	4.0
256.2498	14.02	-3.55	214989.270	2.0	254002.000	1.0	256.5123	20.00	-2.62	15315.943	2.0	54288.740	1.0
256.2519	27.02	-3.68	86283.800	4.5	125296.200	5.5	256.5148	26.01	-1.57	44753.820	3.5	83726.240	3.5
256.2531	26.01	.15	7955.240	3.5	46967.470	2.5	256.5170	76.00	-1.16	10082.190	0.0	49065.961	0.0
256.2566	23.00	-8.36	2424.890	4.5	41436.580	3.5	256.5176	28.02	-4.71	79143.300	2.0	118115.300	2.0
256.2605	24.02	-4.18	115843.500	6.0	154854.600	6.0	256.5216	28.01	-1.78	54557.050	4.5	93528.440	3.5
256.2621	26.01	-2.34	26352.800	4.5	65363.660	5.5	256.5221	25.01	-4.46	27570.950	5.0	66542.260	5.0
256.2660	76.00	.15	13308.491	0.0	52330.445	0.0	256.5222	28.02	-2.81	97841.400	2.0	136812.700	2.0
256.2694	26.02	-4.70	140750.980	2.0	179760.720	3.0	256.5238	23.01	-1.66	30673.140	2.0	69644.200	3.0
256.2718	23.01	-3.60	13594.730	2.0	52604.110	1.0	256.5302	26.02	-4.25	142855.590	4.0	181825.670	4.0
256.2720	14.02	-1.98	214994.650	1.0	254004.000	2.0	256.5334	17.01	-1.41	119799.000	2.0	158768.600	2.0
256.2765	23.01	-4.87	16340.970	3.0	55349.630	3.0	256.5374	25.01	-3.88	33278.390	3.0	72247.360	3.0
256.2775	26.02	-4.07	140750.980	2.0	179759.490	2.0	256.5377	28.01	-2.49	70706.770	1.5	109675.720	.5
256.2812	24.00	-1.28	24833.860	3.0	63841.810	4.0	256.5389	25.00	-3.84	23818.870	.5	62787.630	1.5
256.2832	25.02	-4.89	135041.250	1.5	174048.890	2.5	256.5395	22.02	-3.36	38197.980	2.0	77166.650	2.0
256.2851	14.02	-2.46	214994.650	1.0	254002.000	1.0	256.5406	28.02	-2.71	97996.300	3.0	136964.800	3.0
256.2896	24.01	-1.04	51584.440	1.5	90591.100	2.5	256.5406	27.01	-1.48	13261.100	2.0	52229.600	2.0
256.2905	14.02	-2.25	214995.460	0.0	254002.000	1.0	256.5410	41.00	-0.05	1532.493	0.0	40512.617	0.0
256.3012	26.01	-8.27	23317.600	2.5	62322.500	3.5	256.5481	26.02	-1.87	97041.380	3.0	136008.740	3.0
256.3023	25.02	-4.16	135869.760	3.5	174874.500	4.5	256.5500	28.01	-2.12	99154.810	4.5	138121.880	4.5
256.3092	28.01	-3.49	73903.250	.5	112906.930	1.5	256.5516	28.01	-3.30	97799.660	1.5	136766.490	2.5
256.3113	25.01	-2.10	31514.350	4.0	70517.720	3.0	256.5546	23.01	-1.34	16533.000	5.0	55499.380	5.0
256.3150	44.00	.06	7985.094	0.0	46999.588	0.0	256.5560	70.01	-9.7	34602.076	0.0	73579.921	0.0
256.3160	76.01	1.75	13147.176	0.0	52161.518	0.0	256.5578	24.01	-1.91	31351.150	2.5	70317.040	2.5
256.3160	74.01	1.45	17341.367	0.0	56355.709	0.0	256.5600	90.01	-2.26	1774.465	0.0	40751.702	0.0
256.3170	23.01	-3.16	30641.710	3.0	69644.200	3.0	256.5603	28.01	-2.35	98561.220	2.5	137526.730	2.5
256.3230	21.01	-1.31	0.000	1.0	39001.590	0.0	256.5641	9.02	-4.18	391047.540	.5	430012.480	1.5
256.3280	77.00	-4.81	5726.684	0.0	44739.199	0.0	256.5718	24.00	-3.94	20523.940	5.0	59487.710	4.0
256.3282	25.01	-1.33	62587.500	3.0	101588.300	3.0	256.5720	76.00	-9.99	5726.684	0.0	44702.098	0.0
256.3286	24.01	-4.75	38269.670	3.5	77270.400	4.5	256.5744	23.01	-2.11	16340.970	3.0	55304.340	4.0
256.3294	27.00	-3.03	13795.520	2.5	52796.130	2.5	256.5782	24.01	-3.28	35356.060	1.5	74318.860	2.5
256.3296	26.00	-4.13	12968.552	2.0	51969.140	3.0	256.5782	27.01	-1.30	42008.600	1.0	80971.400	1.0
256.3306	18.02	-4.26	186402.150	4.0	225402.590	3.0	256.5790	45.00	-8.6	5565.369	0.0	44539.720	0.0
256.3320	23.02	-1.05	49327.740	2.5	88327.960	3.5	256.5797	24.00	-4.71	21856.940	3.0	60819.500	3.0
256.3322	7.01	-4.91	187491.900	3.0	226492.090	4.0	256.5815	28.01	-1.81	98561.220	2.5	137523.510	3.5
256.3328	11.02	-4.48	367561.900	.5	406562.000	1.5	256.5840	75.00	-2.28	21616.215	0.0	60589.800	0.0
256.3330	73.00	-1.25	1935.780	0.0	40947.534	0.0	256.5857	10.01	-1.27	279218.660	2.5	318180.310	2.5
256.3350	24.01	-4.26	35707.660	5.5	74707.420	5.5	256.5868	26.00	-1.12	21715.735	5.0	60677.230	5.0
256.3375	23.02	-2.83	106903.350	5.5	145902.730	4.5	256.5886	10.01	-2.21	279218.660	2.5	318179.870	1.5
256.3396	25.01	-4.34	33248.320	4.0	72247.380	3.0	256.5921	28.01	-0.04	53365.170	4.5	92325.850	3.5
256.3400	26.00	-2.17	7728.058	3.0	46727.055	2.0	256.5958	25.00	-3.15	17052.290	4.5	56012.420	3.5
256.3400	22.02	-4.11	38425.190	3.0	77424.200	3.0	256.5980	69.01	-1.54	161.315	0.0	39132.780	0.0
256.3413	30.02	-4.95	218909.400	1.0	257908.200	1.0	256.5986	24.00	-3.15	8095.210	3.0	47054.91	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
256.6595	23.01	-7.74	26839.820	3.0	65790.280	4.0	256.9666	24.02	-2.47	115181.800	2.0	154085.700	3.0
256.6599	25.02	-1.91	138234.790	1.5	177185.180	.5	256.9740	44.00	-5.55	7985.094	0.0	46899.537	0.0
256.6622	26.01	-1.12	22637.190	4.5	61587.240	5.5	256.9745	26.00	-1.60	7985.783	2.0	46888.494	2.0
256.6675	26.02	-2.20	97041.380	3.0	135990.620	4.0	256.9775	26.01	-1.11	37227.320	.5	76129.580	1.5
256.6763	28.02	-3.37	78303.100	2.0	117251.000	3.0	256.9797	26.01	-1.85	27620.390	2.5	66522.320	2.5
256.6780	26.01	-3.37	60625.470	5.5	99573.110	4.5	256.9812	23.03	-1.02	217350.000	3.0	256251.700	4.0
256.6786	25.00	-2.01	27201.540	2.5	66149.100	3.5	256.9851	23.01	-2.63	13490.840	2.0	52391.940	3.0
256.6817	25.02	-3.19	91948.300	3.5	130895.390	4.5	256.9880	77.00	.04	12824.546	0.0	51736.869	0.0
256.6821	26.02	-4.16	143883.740	5.0	182830.760	6.0	256.9931	27.02	-3.40	86327.100	3.5	125227.000	3.5
256.6846	24.01	-7.75	45730.740	2.5	84677.390	3.5	256.9984	18.01	-1.99	160239.350	1.5	199138.450	1.5
256.6880	76.00	.18	10082.190	0.0	49039.991	0.0	257.0003	28.02	-4.97	144153.900	4.0	183052.700	4.0
256.6900	22.00	-4.09	170.132	3.0	39115.958	4.0	257.0090	74.00	-6.60	6129.972	0.0	45039.115	0.0
256.6910	26.01	-5.52	8680.470	1.5	47626.140	.5	257.0128	24.01	-3.76	35607.600	3.5	74504.510	4.5
256.6915	24.02	-9.92	70291.800	2.0	109237.400	1.0	257.0165	24.00	-2.10	23933.900	4.0	62830.260	5.0
256.6920	45.01	.56	38473.637	0.0	77430.831	0.0	257.0168	9.02	-1.35	356371.820	2.5	395268.130	1.5
256.7003	24.00	-6.63	24897.550	4.0	63841.810	4.0	257.0182	24.00	-5.00	20520.920	3.0	59417.010	3.0
256.7033	26.01	-6.98	23031.300	1.5	61975.110	1.5	257.0265	23.01	-4.80	339.210	4.0	39236.050	3.0
256.7050	42.00	.26	10646.793	0.0	49602.014	0.0	257.0320	24.01	-4.26	35610.500	4.5	74504.510	4.5
256.7064	28.01	-2.68	77332.470	2.5	116275.010	3.5	257.0366	24.00	-3.99	20523.690	4.0	59417.010	3.0
256.7073	27.02	-3.99	86283.800	4.5	125227.000	3.5	257.0411	18.01	-2.71	161089.310	.5	199981.940	1.5
256.7084	22.01	-4.99	983.800	2.5	39926.830	2.5	257.0539	26.01	-3.26	48039.230	2.5	86929.920	3.5
256.7092	18.01	-2.05	161089.310	.5	200032.230	1.5	257.0575	25.01	-1.13	49882.150	4.0	88772.300	5.0
256.7111	10.01	-1.35	279218.660	2.5	318161.290	2.5	257.0620	77.00	-3.31	12098.628	0.0	50999.749	0.0
256.7131	10.01	-1.43	279218.660	2.5	318160.990	2.5	257.0674	24.00	-2.26	25038.610	5.0	63927.270	5.0
256.7153	10.03	-4.50	609118.000	1.5	648060.000	1.5	257.0695	24.01	-1.47	31219.490	4.5	70107.830	4.5
256.7153	10.03	-4.80	609118.000	2.5	648060.000	1.5	257.0710	72.01	-6.05	15002.299	0.0	53902.058	0.0
256.7170	28.01	-2.70	74283.330	.5	113225.060	.5	257.0731	23.03	.92	227712.500	4.0	266600.300	5.0
256.7188	26.01	-1.17	44784.780	2.5	83726.240	3.5	257.0769	27.00	-3.24	7442.410	3.5	46329.630	2.5
256.7205	27.02	-3.29	72341.900	1.5	111283.100	.5	257.0780	41.00	-4.74	1532.493	0.0	40431.193	0.0
256.7343	27.00	-6.66	1406.840	2.5	40345.950	2.5	257.0808	26.02	-2.54	144570.530	3.0	183457.150	4.0
256.7346	26.01	-1.69	44929.590	2.5	83868.650	2.5	257.0839	26.02	-4.10	144570.530	3.0	183456.690	3.0
256.7347	24.01	-1.57	31168.780	3.5	70107.830	4.5	257.0844	26.01	.07	30764.460	3.5	69650.540	2.5
256.7384	10.01	-8.84	279218.660	2.5	318157.150	3.5	257.0871	26.01	-1.40	33466.500	4.5	72352.170	3.5
256.7405	25.00	-2.00	23549.200	2.5	62487.360	2.5	257.0917	12.00	-2.45	21850.405	0.0	60735.380	1.0
256.7450	40.00	-9.90	1209.863	0.0	40159.015	0.0	257.0924	25.01	-6.31	48550.420	2.0	82735.290	2.0
256.7500	74.00	-1.01	3306.958	0.0	42255.351	0.0	257.0954	9.02	-6.60	351236.350	.5	390120.770	.5
256.7510	41.00	-3.38	1129.205	0.0	40077.447	0.0	257.0962	25.01	-4.80	31661.720	3.0	70546.020	4.0
256.7529	24.01	.01	51789.210	3.5	90725.500	3.5	257.1002	25.02	-4.35	135692.170	3.5	174575.870	3.5
256.7535	22.02	-1.16	38063.500	1.0	76999.700	1.0	257.1022	22.01	-7.8	4897.600	3.5	43780.990	4.5
256.7584	24.01	-1.00	45669.540	1.5	84604.990	2.5	257.1050	41.00	-4.74	1532.493	0.0	40427.108	0.0
256.7640	40.01	-1.19	0.000	0.0	38946.270	0.0	257.1052	26.01	-3.39	61035.370	.5	99918.300	1.5
256.7720	9.03	-1.19	542583.200	3.0	581516.600	2.0	257.1059	23.01	-7.8	16421.510	4.0	55304.340	4.0
256.7726	18.01	-3.47	161048.640	1.5	199981.940	1.5	257.1065	24.01	-1.14	48632.360	3.5	87515.100	3.5
256.7733	24.01	-1.06	49493.000	.5	88426.200	.5	257.1076	25.01	-2.02	43536.900	4.0	82419.480	3.0
256.7738	27.00	-2.35	8460.810	2.5	47393.930	2.5	257.1094	24.00	-2.45	8307.570	4.0	47189.870	4.0
256.7740	28.01	-4.43	97799.660	1.5	136732.740	1.5	257.1111	25.01	-1.36	43311.000	1.0	82193.040	2.0
256.7811	25.01	-1.63	44138.960	1.0	83070.970	2.0	257.1140	76.00	-1.16	12663.231	0.0	51556.485	0.0
256.7814	26.02	-4.43	140750.980	2.0	179682.940	1.0	257.1141	17.01	-1.73	119842.100	1.0	158723.700	1.0
256.7917	25.01	-4.63	54938.100	1.0	93868.500	1.0	257.1185	26.01	-4.44	60807.280	4.5	95688.200	3.5
256.7928	24.01	-4.25	49706.470	2.5	88636.700	1.5	257.1187	22.01	-2.89	8744.270	2.5	47625.170	2.5
256.7982	13.00	-1.13	0.000	.5	38929.405	1.5	257.1230	71.01	.08	14115.066	0.0	53006.958	0.0
256.8028	25.02	-1.94	138340.620	2.5	177269.340	1.5	257.1260	75.00	-4.42	11534.025	0.0	50425.463	0.0
256.8068	23.01	-1.80	16421.510	4.0	55349.630	3.0	257.1270	25.02	-2.18	71831.980	2.5	110711.620	3.5
256.8070	18.03	-4.20	250906.600	1.5	289834.680	2.5	257.1273	30.02	-1.68	219360.000	4.0	258239.600	4.0
256.8072	25.02	-2.14	72183.330	3.5	111111.390	4.5	257.1299	25.02	-3.73	96397.200	3.5	133276.400	4.5
256.8072	24.01	-4.30	51584.440	1.5	90512.500	1.5	257.1306	9.03	-6.05	542681.200	2.0	581560.300	3.0
256.8104	24.00	-2.50	7750.780	0.0	46678.350	1.0	257.1310	25.01	-3.52	47073.580	3.0	85952.600	3.0
256.8140	28.01	-1.96	70748.700	.5	109675.720	.5	257.1330	41.01	-2.26	1209.863	0.0	40100.243	0.0
256.8143	26.01	-8.87	23317.600	2.5	62244.570	1.5	257.1350	70.01	-4.85	31779.063	0.0	70669.140	0.0
256.8170	63.01	.15	17018.737	0.0	55956.969	0.0	257.1390	40.01	.46	725.918	0.0	39615.390	0.0
256.8174	17.01	-2.29	119842.100	1.0	158768.600	2.0	257.1424	10.01	-1.30	279324.890	1.5	318202.210	1.5
256.8207	9.03	-2.22	551098.000	2.0	590024.000	2.0	257.1440	74.01	.57	3145.643	0.0	42034.359	0.0
256.8210	74.00	-1.05	3306.958	0.0	42244.584	0.0	257.1450	42.01	-1.11	26294.352	0.0	65182.917	0.0
256.8231	28.01	-3.99	68156.570	1.5	107082.210	2.5	257.1464	10.01	-1.98	279324.890	1.5	318201.600	.5
256.8293	17.01	-3.16	119799.000	2.0	158723.700	1.0	257.1468	24.01	-4.15	35607.600	3.5	74484.250	2.5
256.8319	25.01	-4.47	43850.420	2.0	82774.730	1.0	257.1476	26.01	-4.49	61041.780	2.5	99918.300	1.5
256.8331	28.01	-2.74	74300.930	1.5	113225.060	.5	257.1510	73.01	.76	5242.739	0.0	44130.396	0.0
256.8405	26.01	-8.86	22409.820	.5	61332.820	1.5	257.1545	26.01	-1.70	22637.190	4.5	61512.670	4.5
256.8479	24.01	-2.20	48491.390	2.5	87413.270	2.5	257.1580	50.00	.21	8549.697	0.0	47436.296	0.0
256.8514	24.01	-1.19	51669.750	2.5	90591.100	2.5	257.1627	24.01	-2.49	45730.740	2.5	84604.990	2.5
256.8518	25.01	-1.03	34761.810	5.0	73683.110	4.0	257.1630	27.02	-4.47	132592.400	1.5	171466.600	2.5
256.8522	24.00	-1.90	8307.570	4.0	47228.800	5.0	257.1630	27.02	-4.47	132592.400	1.5	171466.600	2.5
256.8560	74.00	-1.21	2903.671	0.0	41835.991	0.0	257.1660	25.01	-3.07	67295.160	4.0	106168.900	5.0
256.8585	25.02	-4.81	97023.800	3.5	135944.080	4.5	257.1667	26.01	-1.88	65109.710	3.5	103983.350	3.5
256.8640	14.00	-2.91	15394.370	0.0	54313.818	1.0	257.1670	72.01	.09	3629.588	0.0	42514.826	0.0
256.8640	75.01	1.26	14760.326	0.0	53691.434	0.0	257.1703	26.00	-3.16	17550.180	3.0	56423.276	4.0
256.8650	24.00	-2.85	7927.470	2.0	46846.770	3.0	257.1709	28.01	-4.48	51045.460	4.5	89918.470	4.5
256.8669	28.01	-2.01	75917.630	3.5	114836.630	3.5	257.1724	26.01	-3.14	47674.780	1.5	86547.550	2.5
256.8730	25.01	.40	52383.										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
257.2244	12.00	-2.27	21870.464	1.0	60735.380	2.0	257.4770	6.01	-0.62	145549.270	1.5	184376.060	2.5
257.2246	20.02	-4.43	347383.510	4.0	386248.390	4.0	257.4786	10.01	-2.21	280268.960	2.5	319095.520	3.5
257.2280	44.00	-0.48	8711.012	0.0	47587.029	0.0	257.4803	27.01	-4.36	22414.500	3.0	61240.800	3.0
257.2340	42.00	-0.47	12259.943	0.0	51135.053	0.0	257.4834	26.02	-2.13	79860.420	5.0	118686.250	4.0
257.2347	25.01	-2.59	33147.390	5.0	72010.750	4.0	257.4840	41.01	-0.79	80.658	0.0	38918.023	0.0
257.2356	24.01	-0.45	48491.390	2.5	87354.620	1.5	257.4865	6.01	-0.47	145550.700	2.5	184376.060	3.5
257.2370	77.00	-0.42	12824.546	0.0	51699.202	0.0	257.4865	6.01	-1.77	145550.700	2.5	184376.060	2.5
257.2410	44.00	-0.25	79859.094	0.0	46859.146	0.0	257.4875	25.02	-2.44	91906.100	2.5	130731.310	3.5
257.2421	25.01	-4.39	67295.160	4.0	106157.400	3.0	257.4889	27.01	-0.90	13404.600	1.0	52229.600	2.0
257.2429	25.01	-0.88	43850.420	2.0	82712.550	3.0	257.4898	26.01	-2.13	61093.440	2.5	99918.300	1.5
257.2470	26.01	-3.40	44466.890	3.5	83308.400	2.5	257.4942	12.00	-3.75	21911.178	2.0	60735.380	1.0
257.2477	24.01	-0.53	49564.800	1.5	88426.200	1.5	257.4942	12.00	-2.75	21911.178	2.0	60735.380	2.0
257.2486	28.01	-1.05	91800.050	4.5	130661.320	5.5	257.4942	12.00	-1.83	21911.178	2.0	60735.380	3.0
257.2627	22.01	-1.72	1215.580	4.5	40074.710	3.5	257.5002	25.03	-4.73	131462.500	5.0	170285.800	6.0
257.2633	26.00	-7.72	12968.552	2.0	51827.590	2.0	257.5095	13.00	-0.88	112.061	1.5	38933.961	2.5
257.2649	26.02	-2.69	82382.870	3.0	121241.670	4.0	257.5184	26.00	-6.14	12580.933	3.0	51381.480	4.0
257.2693	23.02	-4.91	102075.000	2.5	140933.140	3.5	257.5240	44.00	-0.75	6452.602	0.0	45283.934	0.0
257.2700	77.00	-0.62	5726.684	0.0	44596.384	0.0	257.5281	25.00	-3.99	27201.540	2.5	66020.630	2.5
257.2725	25.02	-4.86	140294.440	3.5	179152.090	3.5	257.5333	30.02	-0.34	219360.000	4.0	258178.300	4.0
257.2748	27.02	-4.41	129592.300	4.5	168449.600	3.5	257.5334	9.03	-0.84	542681.200	2.0	581499.500	1.0
257.2751	25.00	-0.39	18531.640	3.5	57388.900	4.5	257.5345	24.00	-3.59	8307.570	4.0	47125.700	3.0
257.2755	26.00	-1.71	12968.552	2.0	51825.758	3.0	257.5397	13.00	-1.83	112.061	1.5	38929.405	1.5
257.2834	25.01	-2.06	31661.720	3.0	70517.720	3.0	257.5439	27.01	-0.21	45197.800	5.0	84014.500	5.0
257.2873	10.01	-1.87	279324.890	1.5	318180.310	2.5	257.5460	74.00	-0.16	19680.435	0.0	58508.450	0.0
257.2885	9.02	-3.17	426558.910	1.5	465414.140	2.5	257.5470	24.01	-2.11	35607.600	3.5	74423.840	3.5
257.2902	10.01	-2.05	279324.890	1.5	318179.870	1.5	257.5470	73.00	-0.04	9194.957	0.0	48022.821	0.0
257.2913	24.01	-4.68	35569.020	2.5	74423.840	3.5	257.5507	25.00	-0.39	18402.460	2.5	57218.150	3.5
257.2930	48.01	-0.98	43877.691	0.0	82743.886	0.0	257.5727	23.02	-1.47	107165.900	1.5	145978.270	2.5
257.2933	18.02	-2.02	243145.760	2.0	282000.260	1.0	257.5732	27.00	-3.70	1809.330	1.5	40621.620	1.5
257.2936	24.01	-3.44	34631.140	4.5	73485.600	3.5	257.5750	45.00	-0.35	14679.669	0.0	53503.313	0.0
257.2956	26.01	-0.75	23317.600	2.5	62171.760	3.5	257.5770	42.00	-0.47	11775.998	0.0	50599.340	0.0
257.2971	25.01	-1.54	43339.100	2.0	82193.040	2.0	257.5785	17.01	-3.29	147053.700	2.0	185865.200	3.0
257.2998	25.01	-1.51	69319.010	0.0	108172.540	1.0	257.5792	26.02	-2.95	83138.230	5.0	121949.620	5.0
257.3090	76.00	-1.05	4113.534	0.0	42977.313	0.0	257.5801	24.01	-0.69	35610.500	4.5	74421.760	5.5
257.3119	17.01	-4.22	147053.700	2.0	185905.400	1.0	257.5804	30.02	-0.02	219360.000	4.0	258171.200	5.0
257.3130	70.01	-1.20	32182.351	0.0	71045.525	0.0	257.5824	25.01	-2.57	55371.300	3.0	94182.200	3.0
257.3176	26.01	-1.40	33501.320	3.5	72352.170	3.5	257.5896	24.00	-2.19	8095.210	3.0	46905.030	4.0
257.3190	25.01	-1.77	43536.900	4.0	82387.530	3.0	257.5902	27.01	-0.70	46786.300	1.0	85596.030	2.0
257.3209	26.01	-0.90	25981.650	3.5	64832.000	4.5	257.5909	27.01	-1.90	47537.100	2.0	86346.730	3.0
257.3281	23.01	-1.68	13542.680	3.0	52391.940	3.0	257.5986	28.01	-2.60	78955.450	1.5	117763.910	1.5
257.3309	24.01	-2.09	30143.720	5.5	68992.550	4.5	257.6013	26.01	-8.15	23317.600	2.5	62125.660	1.5
257.3344	24.01	-2.70	35607.600	3.5	74455.900	4.5	257.6020	9.02	-3.16	426733.040	2.5	465541.000	1.5
257.3348	26.00	-2.92	12560.933	3.0	51409.180	4.0	257.6044	26.00	-0.99	21999.132	4.0	60806.720	3.0
257.3395	27.00	-1.53	4690.180	2.5	43537.710	1.5	257.6050	17.01	-1.34	131768.000	2.0	170575.500	3.0
257.3436	24.00	-1.97	24056.110	5.0	62903.030	6.0	257.6114	25.01	-0.48	0.000	0.0	38806.530	4.0
257.3458	27.01	-1.68	46320.800	4.0	85167.380	3.0	257.6175	25.01	-0.29	52373.180	3.0	91178.800	4.0
257.3480	76.00	-0.33	13953.751	0.0	52811.640	0.0	257.6179	25.00	-4.16	23549.200	2.5	62354.760	1.5
257.3493	27.00	-2.16	5075.830	1.5	43921.890	2.5	257.6200	24.01	-4.06	52298.120	3.5	91103.360	4.5
257.3499	25.02	-4.86	97023.800	3.5	135869.760	3.5	257.6216	27.01	-0.40	41737.800	2.0	80542.800	3.0
257.3523	27.01	-3.90	22414.500	3.0	61260.100	2.0	257.6247	25.02	-3.26	137660.240	3.5	176464.780	3.5
257.3530	74.00	-0.16	13227.833	0.0	52084.967	0.0	257.6258	26.00	-3.70	12560.933	3.0	51365.300	3.0
257.3533	27.00	-3.78	4142.660	3.5	42988.120	3.5	257.6320	75.00	-0.41	17180.052	0.0	55995.106	0.0
257.3537	24.01	-0.43	35610.500	4.5	74455.900	4.5	257.6336	24.00	-1.34	25038.610	5.0	63841.810	4.0
257.3540	73.00	-0.71	0.000	0.0	38856.983	0.0	257.6345	26.02	-3.44	83138.230	5.0	121941.290	4.0
257.3556	8.03	-2.22	513187.200	2.5	552032.300	2.5	257.6402	27.02	-4.99	132277.100	3.5	171079.300	3.5
257.3561	24.01	-1.38	48749.570	5.5	87594.600	1.5	257.6402	27.02	-4.99	132277.100	3.5	171079.300	3.5
257.3632	9.02	-0.24	351236.350	5.5	390080.300	1.5	257.6402	27.02	-5.00	132277.100	3.5	171079.300	3.5
257.3684	22.01	-2.21	4897.600	3.5	43740.770	3.5	257.6423	24.01	-0.55	51789.210	3.5	90591.100	2.5
257.3712	24.01	-0.74	51669.750	2.5	90512.500	1.5	257.6434	22.02	-0.55	38197.980	2.0	76999.700	2.0
257.3735	8.03	-1.08	513187.200	2.5	552029.600	1.5	257.6479	23.01	-3.60	16340.970	3.0	55142.010	3.0
257.3750	26.01	-1.52	30764.460	3.5	69606.640	3.5	257.6513	26.00	-6.39	12560.933	3.0	51361.660	3.0
257.3760	75.00	-0.26	14115.066	0.0	52968.728	0.0	257.6545	25.01	-1.68	44138.960	1.0	82939.000	1.0
257.3777	25.02	-2.39	138635.460	2.5	177477.230	2.5	257.6560	42.01	-0.16	24035.941	0.0	62847.380	0.0
257.3790	73.00	-0.51	1935.780	0.0	40788.989	0.0	257.6600	41.00	-0.38	2097.096	0.0	40907.932	0.0
257.3828	25.00	-4.09	23549.200	2.5	62390.200	1.5	257.6690	90.01	-0.38	4113.534	0.0	42923.014	0.0
257.3850	22.01	-0.28	30240.680	5.5	69081.350	4.5	257.6692	26.00	-0.71	6928.266	5.0	45726.104	5.0
257.3861	24.00	-4.62	20517.400	2.0	59357.900	2.0	257.6733	23.01	-4.44	13594.730	2.0	52391.940	3.0
257.3900	72.01	-0.55	12017.970	0.0	50869.518	0.0	257.6757	24.01	-3.79	35707.660	5.5	74504.510	4.5
257.3920	22.01	-3.42	1087.210	3.5	39926.830	2.5	257.6820	72.01	-0.22	8307.725	0.0	47115.247	0.0
257.3921	18.01	-1.99	172829.580	1.5	211669.180	2.5	257.6858	26.01	-0.47	33466.500	4.5	72261.830	5.5
257.3950	74.01	-0.94	16454.134	0.0	55304.928	0.0	257.6875	25.01	-1.80	52383.720	4.0	91178.800	4.0
257.4027	23.00	-0.57	553.020	4.5	39391.020	4.5	257.6955	9.02	-4.58	427459.370	5.5	466253.240	1.5
257.4060	51.00	-0.49	16292.819	0.0	55141.952	0.0	257.6959	25.02	-4.92	135041.250	1.5	173835.070	1.5
257.4093	17.02	-4.08	179076.100	1.5	217913.100	1.5	257.6975	26.00	-2.45	12968.552	2.0	51762.120	2.0
257.4095	24.00	-4.19	20520.920	3.0	59357.900	2.0	257.7020	74.00	-0.10	15002.299	0.0	53806.810	0.0
257.4106	9.02	-3.61	431432.270	1.5	470269.070	1.5	257.7043	24.01	-0.82	48749.570	5.5	87542.120	5.5
257.4119	24.01	-1.80	31117.590	2.5	69954.200	2.5	257.7077	15.01	-2.46	103166.370	1.0	141958.400	1.0
257.4133	10.01	-1.14	279324.890	1.5	318161.290	2.5	257.7139	23.03	-1.72	217990.700	1.0	2	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
257.7727	26.01	-0.93	61041.780	2.5	99824.040	2.5	257.9697	14.02	-3.29	206176.080	1.0	244928.720	0.0
257.7731	28.02	-0.91	98238.200	4.0	137020.400	5.0	257.9709	24.01	-4.88	34659.480	.5	73411.940	1.5
257.7740	24.01	-3.00	52321.300	4.5	91103.360	4.0	257.9769	24.00	-2.75	8095.210	3.0	46846.770	3.0
257.7745	24.00	-3.48	21847.880	2.0	60629.870	2.0	257.9814	24.00	-3.37	7927.470	2.0	46678.350	1.0
257.7777	25.01	-4.49	54938.100	1.0	93719.600	0.0	257.9881	24.00	-4.90	25177.390	4.0	63927.270	5.0
257.7780	73.00	-0.13	5565.369	0.0	44358.439	0.0	257.9900	24.00	-2.50	7927.470	2.0	46677.060	2.0
257.7816	24.01	-0.73	48632.360	3.5	87413.270	2.5	257.9906	9.02	-4.33	351330.800	1.5	390080.300	1.5
257.7822	25.01	-1.00	35004.430	3.0	73785.250	2.0	257.9926	23.03	-1.90	217990.700	1.0	256739.900	0.0
257.7823	25.02	-4.01	137137.690	1.5	175918.500	.5	257.9972	12.00	-3.06	21911.178	2.0	60659.690	2.0
257.7830	25.01	-0.74	43370.370	3.0	82151.070	2.0	257.9977	25.02	-4.52	94707.200	4.5	133455.640	5.5
257.7857	17.01	-1.63	131754.800	1.0	170535.100	2.0	257.9990	24.01	-4.57	35707.660	5.5	74455.900	4.5
257.7858	25.02	-3.55	97000.800	4.5	135781.090	5.0	258.0008	26.01	-5.40	23317.600	2.5	62065.570	3.5
257.7870	27.01	-4.46	42008.600	1.0	80788.700	2.0	258.0017	9.02	-0.14	391626.910	3.5	430374.750	2.5
257.7890	26.02	-3.09	83161.480	4.0	121941.290	4.0	258.0023	24.00	-3.44	8307.570	4.0	47055.310	5.0
257.7918	26.01	-0.49	8846.760	.5	47626.140	.5	258.0030	76.01	1.62	13147.176	0.0	51906.415	0.0
257.7922	10.01	-1.49	279422.890	.5	318202.210	1.5	258.0050	24.00	-3.15	8307.570	4.0	47054.910	4.0
257.7955	25.01	-0.65	44138.960	1.0	82917.780	2.0	258.0053	17.01	-1.96	131767.400	0.0	170514.700	1.0
257.7962	26.01	-2.59	26055.400	2.5	64834.120	1.5	258.0059	24.00	-4.09	34659.480	.5	73406.680	.5
257.7963	10.01	-1.90	279422.890	.5	318201.600	.5	258.0066	26.00	-5.45	8154.713	1.0	46901.808	1.0
257.7966	24.01	-1.74	30391.940	6.5	69170.600	5.5	258.0073	9.02	.20	351330.800	1.5	390077.800	2.5
257.7977	27.01	-2.82	24886.500	2.0	63665.000	1.0	258.0093	17.01	-3.04	131768.000	2.0	170514.700	1.0
257.7982	25.01	-2.92	67744.080	6.0	106522.500	6.0	258.0113	26.01	-1.84	44232.510	4.5	82978.900	4.5
257.7987	25.00	-1.59	23296.670	3.5	62075.020	2.5	258.0140	81.00	-0.89	0.000	0.0	38757.587	0.0
257.8048	25.02	-2.76	71395.270	.5	110172.690	1.5	258.0160	73.00	-0.80	1935.780	0.0	40693.066	0.0
257.8086	10.01	-4.86	290371.950	2.5	329148.800	1.5	258.0180	18.02	-0.71	186657.200	3.0	225402.590	3.0
257.8088	26.01	-1.56	64832.000	4.5	103608.820	4.5	258.0184	25.00	-0.95	27201.540	2.5	65946.870	2.5
257.8095	10.01	-3.64	290371.950	2.5	329148.670	2.5	258.0280	41.01	.32	9436.930	0.0	48192.414	0.0
257.8096	28.01	-4.06	98122.630	.5	136899.330	1.5	258.0291	26.00	-3.02	12560.933	3.0	51304.650	4.0
257.8106	25.02	-3.61	140563.030	3.5	179339.590	2.5	258.0310	75.00	-0.35	15647.559	0.0	54402.592	0.0
257.8118	25.01	-1.99	35004.430	3.0	73780.810	3.0	258.0326	27.01	.49	9812.700	4.0	48555.900	5.0
257.8140	72.01	-0.23	4839.451	0.0	43627.104	0.0	258.0330	74.00	-0.74	2903.671	0.0	41658.404	0.0
257.8160	76.00	-0.21	11292.053	0.0	50079.405	0.0	258.0340	26.02	-4.91	147635.950	3.0	186378.940	4.0
257.8162	25.01	-2.16	67744.080	6.0	106519.800	7.0	258.0359	27.02	-4.81	129706.900	3.5	168449.600	3.5
257.8176	8.02	-3.88	294001.600	2.0	332777.100	1.0	258.0360	18.01	-3.37	172829.580	1.5	211572.700	1.5
257.8191	28.01	-4.79	77736.790	4.5	116512.060	3.5	258.0442	22.02	-0.70	38425.190	3.0	77166.650	2.0
257.8197	24.00	-3.19	7593.160	2.0	46368.350	3.0	258.0454	26.00	-2.94	7985.783	2.0	46727.055	2.0
257.8200	41.00	-0.45	1532.493	0.0	40319.243	0.0	258.0478	24.00	-3.85	8307.570	4.0	47048.480	3.0
257.8208	25.01	-3.40	67744.080	6.0	106519.100	5.0	258.0490	74.00	-0.42	1613.150	0.0	40365.480	0.0
257.8240	73.01	.80	12582.573	0.0	51368.722	0.0	258.0514	28.01	-4.50	67880.160	2.5	106620.530	3.5
257.8265	24.01	-4.10	30864.610	2.5	69638.770	1.5	258.0554	26.00	-2.70	12968.552	2.0	51708.330	2.0
257.8266	24.00	-0.53	24056.110	5.0	62830.260	5.0	258.0573	17.01	-3.62	147125.700	3.0	185865.200	3.0
257.8278	25.01	.10	43370.370	3.0	82144.340	3.0	258.0672	17.02	.50	205946.900	2.5	244684.900	3.5
257.8283	27.02	-4.66	131581.600	3.5	170355.500	2.5	258.0675	28.01	-4.80	94705.930	3.5	133443.890	2.5
257.8308	24.01	-0.35	30219.040	4.5	68992.550	4.5	258.0692	24.02	-3.53	69510.600	0.0	108248.300	1.0
257.8320	76.01	1.82	15486.244	0.0	54271.189	0.0	258.0700	90.01	-0.90	4636.164	0.0	43185.341	0.0
257.8347	24.00	-3.73	21856.940	3.0	60629.870	2.0	258.0714	25.00	-3.46	23296.670	3.5	62034.040	3.5
257.8360	42.01	.19	26375.009	0.0	65159.353	0.0	258.0718	26.01	-2.58	33501.320	3.5	72238.630	2.5
257.8364	25.01	-2.15	34910.430	4.0	73683.110	4.0	258.0800	44.00	.07	9033.642	0.0	47781.317	0.0
257.8367	25.00	-3.40	27248.000	1.5	66020.630	2.5	258.0820	57.01	-0.44	15566.901	0.0	54314.276	0.0
257.8453	23.01	-1.72	16533.000	5.0	55304.340	4.0	258.0837	27.00	-1.30	4690.180	2.5	43425.710	2.5
257.8462	28.00	-3.28	1713.080	1.0	40484.282	2.0	258.0841	24.00	-1.13	25106.340	3.0	63841.810	4.0
257.8474	24.00	-2.84	21856.940	3.0	60627.960	4.0	258.0872	13.01	-2.67	110087.500	2.0	148822.500	3.0
257.8475	9.04	-1.02	784361.000	1.5	823132.000	1.5	258.0875	25.01	-2.57	53781.700	3.0	92516.650	4.0
257.8570	44.00	.06	8469.040	0.0	47250.225	0.0	258.0893	24.01	-1.91	31168.780	3.5	69903.460	3.5
257.8588	30.02	-1.06	218909.400	1.0	257678.700	2.0	258.0941	23.01	-3.92	13511.710	1.0	52245.680	2.0
257.8608	24.02	-1.81	71736.000	5.0	110505.000	6.0	258.0953	26.00	-2.22	8154.713	1.0	46688.494	2.0
257.8678	24.00	-4.91	21847.880	2.0	60615.840	3.0	258.1048	25.01	-2.17	33278.390	3.0	72010.750	4.0
257.8686	25.00	-1.30	23719.520	1.5	62487.360	2.5	258.1050	76.00	-0.25	5081.424	0.0	43825.346	0.0
257.8710	77.00	-0.08	16454.134	0.0	55233.213	0.0	258.1060	74.00	-0.08	12098.628	0.0	50842.400	0.0
257.8726	14.02	-2.59	206176.080	1.0	244943.310	2.0	258.1092	25.02	-3.77	97000.800	4.5	135732.500	4.5
257.8735	17.01	-2.04	131768.000	2.0	170535.100	2.0	258.1101	26.01	-0.90	23317.600	2.5	62049.170	2.5
257.8740	41.00	.17	2097.096	0.0	40875.724	0.0	258.1113	26.01	-0.73	60956.820	3.5	99688.200	3.5
257.8757	24.01	-3.01	25035.640	.5	63802.410	.5	258.1140	44.00	-0.03	8952.985	0.0	47695.556	0.0
257.8763	22.01	-0.03	907.960	1.5	39674.640	.5	258.1161	24.00	-0.16	0.000	3.0	38730.670	2.0
257.8770	42.00	-0.09	11775.998	0.0	50554.175	0.0	258.1165	26.01	-2.26	61093.440	2.5	99824.040	2.5
257.8781	30.02	-1.09	261286.800	1.0	300053.200	2.0	258.1186	27.01	-0.25	11651.310	2.0	50381.600	3.0
257.8790	71.01	.24	12340.601	0.0	51118.477	0.0	258.1192	9.02	-4.50	427545.310	1.5	466275.500	2.5
257.8811	26.01	-0.01	61726.090	3.5	100492.040	3.5	258.1200	74.01	-0.22	6049.314	0.0	44790.985	0.0
257.8819	25.01	.69	43370.370	3.0	82136.200	4.0	258.1238	27.01	-1.53	24886.500	2.0	63616.000	2.0
257.8819	26.01	-1.04	60807.280	4.5	99573.110	4.5	258.1266	22.00	-4.35	386.874	4.0	39115.958	4.0
257.8862	22.00	-4.06	386.874	4.0	39152.057	5.0	258.1296	26.01	-3.12	48039.230	2.5	86767.870	2.5
257.8886	22.00	-4.21	0.000	2.0	38764.832	3.0	258.1298	27.02	-3.66	86283.800	4.5	125012.400	4.5
257.8910	77.00	-0.41	12985.861	0.0	51761.933	0.0	258.1386	25.02	-2.27	109841.120	3.5	148568.400	2.5
257.8921	27.00	-1.81	8460.810	2.5	47225.110	3.5	258.1432	28.02	-2.50	98238.200	4.0	136964.800	3.0
257.8950	44.00	-0.21	8469.040	0.0	47244.511	0.0	258.1440	75.00	-0.43	11534.025	0.0	50272.094	0.0
257.8980	26.01	-2.61	27314.930	3.5	66078.340	2.5	258.1544	25.02	-3.01	138245.090	5.5	176970.010	5.5
257.9010	75.00	-0.21	15082.956	0.0	53857.525	0.0	258.1559	26.02	-4.95	144085.970	4.0	182810.660	5.0
257.9046	25.01	-2.61	33248.320	4.0	72010.750	4.0	258.1600	73.01	.26	4814.902	0.0	46414.570	0.0
257.9094	23.02	-2.15	107										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
258.2455	24.01	-2.73	35607.600	3.5	74318.860	2.5	258.5086	25.00	-3.28	27201.540	2.5	65873.400	2.5
258.2482	25.01	-2.86	53805.800	4.0	92516.650	4.0	258.5108	25.00	-3.66	23719.520	1.5	62391.050	1.5
258.2540	72.01	-4.44	2984.328	0.0	41705.897	0.0	258.5129	25.01	-3.39	43484.500	2.0	82155.720	1.0
258.2560	57.01	-4.42	14034.408	0.0	52755.677	0.0	258.5140	25.02	-4.97	137599.200	3.5	176270.250	2.5
258.2582	26.01	-3.37	8680.470	1.5	47389.820	1.5	258.5154	28.01	-1.26	91800.050	4.5	130470.900	4.5
258.2605	25.01	-4.38	41204.340	5.0	79913.350	4.0	258.5165	25.00	-1.62	23719.520	1.5	62390.200	1.5
258.2620	76.00	-4.71	5726.684	0.0	44447.053	0.0	258.5210	26.02	-2.22	84159.550	4.0	122829.550	3.0
258.2626	25.02	-3.48	97023.800	3.5	135732.500	4.5	258.5246	23.01	-6.94	13511.710	1.0	52181.180	1.0
258.2643	27.00	-2.47	4690.180	2.5	43398.620	3.5	258.5266	23.00	-6.77	2311.370	3.5	40980.540	4.5
258.2644	26.01	-1.67	63876.380	5.5	102584.810	5.5	258.5292	27.00	-3.23	4142.660	3.5	42811.440	3.5
258.2677	9.02	-4.68	427545.310	1.5	466253.240	1.5	258.5319	25.02	-4.34	97023.800	3.5	135692.170	3.5
258.2722	24.01	-1.89	38563.150	4.5	77270.400	4.5	258.5334	27.00	-1.14	8460.810	2.5	47128.960	2.5
258.2751	28.01	-1.37	98822.550	6.5	137529.370	6.5	258.5402	26.01	-1.63	61156.900	3.5	99824.040	2.5
258.2762	28.01	-3.27	78955.450	1.5	117662.110	1.5	258.5412	26.02	-2.91	93412.930	2.0	132079.910	3.0
258.2774	26.01	-0.84	60625.470	5.5	99331.950	4.5	258.5424	17.01	-1.81	147198.400	4.0	185865.200	3.0
258.2809	24.00	-2.79	24056.110	5.0	62762.060	4.0	258.5430	74.00	-1.10	13227.833	0.0	51906.119	0.0
258.2862	24.00	-4.45	7593.160	2.0	46298.320	1.0	258.5438	9.02	-1.18	442694.580	1.5	481361.170	1.5
258.2898	6.00	-4.52	12648.010	0.0	60352.630	1.0	258.5440	25.01	-1.20	43484.500	2.0	82151.070	2.0
258.2909	24.01	-2.42	35569.020	2.5	74273.480	1.5	258.5466	25.01	-4.36	67845.930	5.0	106512.100	4.0
258.2939	8.02	-2.78	331820.200	3.0	370524.200	2.0	258.5487	25.01	-1.76	68284.380	3.0	106950.240	3.0
258.2947	25.01	-4.46	43258.300	5.0	82232.180	5.0	258.5505	27.02	-3.36	133711.400	2.5	172377.000	3.5
258.2977	26.02	-2.28	83237.860	3.0	121941.290	4.0	258.5544	24.01	-1.80	52321.300	4.5	90986.310	3.5
258.3006	23.01	-4.67	13542.680	3.0	52245.680	2.0	258.5553	12.00	-2.44	21870.464	1.0	60535.340	1.0
258.3019	24.00	-4.48	24200.230	6.0	62903.030	6.0	258.5553	12.00	-2.14	21870.464	1.0	60535.340	1.0
258.3040	44.00	-0.27	7985.094	0.0	46699.167	0.0	258.5584	24.00	-0.92	25177.390	4.0	63641.810	4.0
258.3050	26.01	-2.85	22810.330	3.5	61512.670	4.5	258.5592	26.02	-2.15	105906.230	2.0	144570.530	3.0
258.3065	23.02	-3.24	106441.310	4.5	145143.430	4.5	258.5599	26.02	-2.45	97041.380	3.0	135705.570	3.0
258.3110	41.00	-4.7	8711.012	0.0	47424.036	0.0	258.5610	73.00	-1.19	9598.245	0.0	48273.838	0.0
258.3171	25.01	-4.64	44138.960	1.0	82839.490	0.0	258.5616	26.01	-1.56	33466.500	4.5	72130.440	4.5
258.3173	27.01	-3.37	24886.500	2.0	63587.000	3.0	258.5703	25.02	-1.73	94397.200	3.5	133059.840	3.5
258.3180	77.00	-4.44	18389.915	0.0	57101.890	0.0	258.5740	44.00	-0.34	7985.094	0.0	46658.743	0.0
258.3183	25.01	-3.44	67811.750	3.0	106512.100	4.0	258.5758	26.01	-1.48	26170.190	5.5	64832.000	4.5
258.3220	41.00	-4.49	2097.096	0.0	40808.472	0.0	258.5778	26.00	-6.76	12968.552	2.0	51630.070	2.0
258.3222	22.00	-2.50	0.000	2.0	38699.767	2.0	258.5798	24.00	-4.14	21856.940	3.0	60518.160	3.0
258.3282	25.00	-0.70	27248.000	1.5	65946.870	2.5	258.5798	24.00	-3.69	21856.940	3.0	60518.160	3.0
258.3286	17.02	-1.51	204124.000	1.5	242822.800	2.5	258.5808	25.01	-0.64	47073.560	3.0	85734.620	3.0
258.3292	26.01	-1.02	60989.480	4.5	99688.200	3.5	258.5876	26.01	-1.10	0.000	4.5	38660.040	3.5
258.3346	26.01	-2.41	27314.930	3.5	66012.830	4.5	258.5889	24.01	-1.08	49006.150	1.5	87666.000	2.5
258.3400	40.01	-0.54	4436.164	0.0	43144.842	0.0	258.5890	25.01	-0.40	43484.500	2.0	82144.340	3.0
258.3401	28.01	-0.66	98822.550	6.5	137519.630	7.5	258.5950	42.01	-0.06	23713.311	0.0	62383.819	0.0
258.3418	26.02	-2.76	79860.420	5.0	118557.250	5.0	258.5980	26.02	-4.37	141002.990	4.0	179661.480	3.0
258.3505	16.02	-1.71	172631.270	0.0	211326.800	1.0	258.6013	9.03	-1.48	551366.000	3.0	590024.000	2.0
258.3514	14.02	-2.99	206176.080	1.0	244871.470	1.0	258.6018	21.00	-5.15	0.000	1.5	36657.930	2.5
258.3521	25.01	-0.27	43536.900	4.0	82232.180	5.0	258.6046	26.01	-1.09	23317.600	2.5	61975.110	1.5
258.3532	22.00	-3.59	8492.421	1.0	47187.540	2.0	258.6059	25.02	-1.82	138312.700	4.5	176970.010	5.5
258.3544	22.01	-3.81	907.960	1.5	39602.900	1.5	258.6100	30.02	-0.78	218909.400	1.0	257566.100	1.0
258.3622	24.01	-1.45	30298.770	5.5	68992.550	4.5	258.6130	64.01	-3.59	3952.218	0.0	42620.034	0.0
258.3740	26.02	-2.65	93412.930	2.0	132104.940	2.0	258.6133	23.02	-3.98	107165.900	1.5	145822.110	1.5
258.3784	25.01	-2.27	43696.190	3.0	82387.530	3.0	258.6180	27.02	-4.33	129556.000	5.5	168211.500	4.5
258.3796	26.02	-2.89	93388.750	4.0	132079.910	3.0	258.6265	22.00	-1.30	0.000	2.0	38654.230	1.0
258.3807	9.02	-0.37	351519.420	2.5	390210.430	3.5	258.6281	28.01	-2.77	56075.260	2.5	94729.250	2.5
258.3841	26.01	-3.49	21711.890	3.5	60402.380	2.5	258.6310	11.01	-1.01	293224.120	1.0	331877.670	1.0
258.3851	23.01	-3.54	13490.840	2.0	52181.180	1.0	258.6316	25.01	-2.79	67865.630	4.0	106519.100	5.0
258.3900	26.01	-2.79	44446.890	3.5	83136.500	3.5	258.6340	74.00	-1.58	3306.588	0.0	41971.635	0.0
258.3916	25.02	-3.95	94397.200	3.5	133086.570	4.5	258.6430	26.00	-9.47	11976.239	4.0	50628.000	3.0
258.3990	41.01	1.29	9759.560	0.0	48459.400	0.0	258.6485	23.01	-3.03	13594.730	2.0	52245.680	2.0
258.3997	28.01	-1.26	29593.460	5	68281.620	5	258.6509	26.00	-6.97	12968.552	2.0	51619.140	3.0
258.4044	26.02	-1.58	93392.450	3.0	132079.910	3.0	258.6526	23.01	-3.98	13741.610	3.0	52391.940	3.0
258.4087	8.02	-3.61	290956.620	1.0	329643.430	0.0	258.6551	26.00	-1.10	21715.735	5.0	60365.700	6.0
258.4103	24.01	-2.58	30156.940	3.5	68843.510	3.5	258.6564	25.01	-0.51	49291.310	3.0	87941.080	4.0
258.4107	25.00	-0.80	18531.640	3.5	57218.150	3.5	258.6595	25.01	-2.52	43131.400	2.0	81780.700	3.0
258.4134	25.02	-3.51	97023.800	3.5	135709.900	2.5	258.6640	74.00	-1.30	4758.794	0.0	43418.986	0.0
258.4140	44.00	-0.09	8469.040	0.0	47166.634	0.0	258.6647	25.01	-1.64	52653.270	4.0	91301.800	5.0
258.4158	25.01	-0.91	47073.560	3.0	85759.300	4.0	258.6653	9.02	-0.48	442694.580	1.5	481363.010	1.5
258.4178	26.01	-1.90	60887.660	5.5	99573.110	4.5	258.6785	25.01	-3.95	67865.630	4.0	106512.100	4.0
258.4188	27.02	-4.08	86327.100	3.5	125012.400	4.5	258.6788	26.01	-1.78	61041.780	2.5	99688.200	3.5
258.4213	12.00	-2.32	21850.405	0.0	60535.340	1.0	258.6790	75.00	-0.03	11695.340	0.0	50353.291	0.0
258.4263	26.01	-3.04	62065.570	3.5	100749.750	2.5	258.6794	26.01	-2.50	45079.910	2.5	83726.240	3.5
258.4277	24.01	-4.39	31219.490	4.5	69903.460	3.5	258.6847	24.00	-3.24	21847.880	2.0	60493.420	3.0
258.4282	10.01	-2.78	305364.030	4.5	344047.920	3.5	258.6875	25.01	-1.56	52373.180	3.0	91018.300	3.0
258.4283	25.00	-1.13	18402.460	2.5	57086.330	2.5	258.6890	27.01	-2.11	25147.200	4.0	33792.100	4.0
258.4306	25.00	-0.59	18705.370	4.5	57388.900	4.5	258.6940	74.00	-0.15	12098.628	0.0	50754.337	0.0
258.4319	28.01	-1.11	76402.030	2.5	115085.360	3.5	258.6943	13.01	-2.79	110087.500	2.0	148731.600	3.0
258.4356	10.01	-1.25	305365.130	3.5	344047.920	3.5	258.7000	75.00	-0.58	13711.778	0.0	52366.591	0.0
258.4371	25.01	-2.44	68284.380	3.0	106966.940	2.0	258.7114	24.01	-2.57	30864.610	2.5	69506.160	3.5
258.4380	74.00	-0.64	16857.422	0.0	55551.422	0.0	258.7126	26.02	-3.12	105929.160	3.0	144570.530	3.0
258.4416	26.02	-3.22	83237.860	3.0	121919.740	3.0	258.7151	20.02	-0.69	243930.440	1.0	282571.430	1.0
258.4442	25.01	-1.07	43131.400	2.0	81812.900	2.0	258.7159	25.02	-3.47	71395.270	5	110036.140	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
258.7886	10.01	-2.01	305364.030	4.5	343994.050	4.5	259.0716	24.01	-2.23	30150.160	6.5	68737.990	5.5
258.7887	10.01	-2.28	305364.030	4.5	343994.040	5.5	259.0760	76.00	-0.06	4113.534	0.0	42712.246	0.0
258.7946	26.01	-1.39	33501.320	3.5	72130.440	4.5	259.0799	23.02	-1.74	107060.410	0.5	145647.000	1.5
258.7954	24.02	-4.79	119039.900	5.0	157668.900	6.0	259.0808	23.01	-4.56	13594.730	2.0	52181.180	1.0
258.7960	10.01	-1.37	305365.130	3.5	343994.050	4.5	259.0869	26.00	-1.51	7728.058	3.0	46313.610	2.0
258.8035	24.02	-2.57	120747.800	4.0	159375.600	3.0	259.0874	26.01	-2.98	61332.820	1.5	99918.300	1.5
258.8036	26.02	-4.72	141002.990	4.0	179630.770	4.0	259.0892	22.00	-4.01	8602.340	2.0	47187.540	2.0
258.8056	22.01	-3.20	8997.690	3.5	47625.170	2.5	259.0940	41.01	1.32	10082.190	0.0	48678.221	0.0
258.8071	25.01	-2.08	29869.110	2.0	68496.370	1.0	259.0970	44.00	-2.27	7420.492	0.0	46016.076	0.0
258.8131	23.01	-1.91	30318.630	4.0	68945.000	3.0	259.0976	26.02	-4.99	149525.630	2.0	188109.580	3.0
258.8161	26.02	-2.89	82382.870	3.0	121008.780	3.0	259.0998	26.01	-1.53	60989.480	4.5	99573.110	4.5
258.8168	23.01	-5.59	25191.080	2.0	63816.900	3.0	259.1026	26.01	-3.67	54904.500	3.5	93487.710	3.5
258.8186	26.01	-1.57	22409.820	0.5	61035.370	0.5	259.1117	24.00	-2.80	8095.210	3.0	46677.060	2.0
258.8196	25.00	-3.52	27248.000	1.5	65873.400	2.5	259.1120	44.00	-0.26	8469.040	0.0	47062.390	0.0
258.8199	8.02	-2.18	290956.620	1.0	329581.980	1.0	259.1127	30.02	-1.08	218909.400	1.0	257491.100	0.0
258.8200	24.00	-1.87	8095.210	3.0	46720.540	4.0	259.1130	75.00	-4.41	17180.052	0.0	55773.253	0.0
258.8208	24.01	-2.62	38362.560	1.5	76987.780	2.5	259.1131	25.01	-4.13	31760.930	2.0	70342.580	3.0
258.8258	24.01	-1.87	30219.040	4.5	68843.510	3.5	259.1158	24.00	-3.28	7593.160	2.0	46174.400	3.0
258.8260	76.00	-1.33	13953.751	0.0	52589.746	0.0	259.1161	28.02	-3.33	75123.800	5.0	113705.000	5.0
258.8279	12.00	-3.62	21911.178	2.0	60535.340	1.0	259.1224	25.01	-2.8	43536.900	4.0	82117.160	2.0
258.8279	12.00	-2.61	21911.178	2.0	60535.340	2.0	259.1225	26.01	-0.86	54904.500	3.5	93484.750	4.5
258.8279	12.00	-1.69	21911.178	2.0	60535.340	3.0	259.1266	28.01	-0.72	100309.290	5.5	138888.930	6.5
258.8283	26.01	-1.21	62125.660	1.5	100749.750	2.5	259.1330	72.01	-1.24	0.000	0.0	38590.222	0.0
258.8301	21.01	-2.63	26081.320	2.0	64705.160	2.0	259.1339	25.02	-2.79	94697.850	3.5	133276.400	4.5
258.8309	28.01	-2.47	29070.930	1.5	67694.640	2.5	259.1367	23.01	-4.67	8841.970	3.0	47420.100	4.0
258.8316	28.01	-2.09	74283.330	0.5	112906.930	1.5	259.1433	25.01	-0.31	29919.220	2.0	68496.370	1.0
258.8408	10.01	-1.77	280473.580	1.5	319095.810	2.5	259.1454	26.02	-4.56	141002.990	4.0	179579.830	5.0
258.8440	25.00	-4.80	24802.250	3.5	63424.000	3.5	259.1490	74.01	-0.33	0.000	0.0	38587.839	0.0
258.8491	26.01	-2.19	44232.510	4.5	82853.500	5.5	259.1515	22.01	-1.92	20891.880	3.5	59467.810	3.5
258.8584	27.02	-3.26	72341.900	1.5	110961.500	1.5	259.1541	26.01	-0.40	8391.920	2.5	46967.470	2.5
258.8611	27.02	-4.79	129592.300	4.5	168211.500	4.5	259.1564	25.02	-3.12	109780.400	2.5	148355.600	3.5
258.8618	22.01	-2.68	983.800	2.5	39602.900	1.5	259.1590	75.00	-0.31	11534.025	0.0	50120.375	0.0
258.8666	15.01	-4.06	103340.010	2.0	141958.400	1.0	259.1592	25.02	-3.54	94397.200	3.5	132971.990	3.5
258.8753	26.01	-1.22	54870.620	2.5	93487.710	3.5	259.1540	44.00	-0.37	8771.012	0.0	47296.618	0.0
258.8758	26.02	-4.64	149525.630	2.0	188142.640	2.0	259.1586	27.00	-1.42	4690.180	2.5	43263.570	1.5
258.8780	42.01	-0.36	23793.968	0.0	62422.202	0.0	259.1699	18.01	-2.87	160239.350	1.5	198812.550	2.5
258.8790	26.01	-1.26	27314.930	3.5	65931.460	3.5	259.1705	24.02	-3.73	63172.200	2.0	101745.300	3.0
258.8806	26.01	-1.79	60956.820	3.5	99573.110	4.5	259.1725	10.01	-4.19	280262.330	3.5	318835.140	2.5
258.8840	17.02	-0.02	216524.600	2.5	255140.400	2.5	259.1737	22.00	-5.32	386.874	4.0	38959.499	4.0
258.8880	73.01	-0.08	6775.232	0.0	45401.974	0.0	259.1749	10.01	-2.80	280262.330	3.5	318834.780	3.5
258.8891	27.01	-0.31	45972.100	3.0	84587.120	4.0	259.1756	26.00	-7.46	8154.713	1.0	46727.055	2.0
258.8892	26.00	-1.97	7985.783	2.0	46600.800	1.0	259.1767	25.00	-3.44	23818.870	0.5	62391.050	0.5
258.8914	18.01	-4.37	170400.940	2.5	209015.630	3.5	259.1770	42.01	-0.15	23713.311	0.0	62296.982	0.0
258.8942	22.01	-1.95	29968.080	4.5	68582.340	5.5	259.1811	25.01	-0.46	43528.300	5.0	82099.820	4.0
258.8949	25.01	-0.63	43528.300	5.0	82142.460	6.0	259.1824	25.00	-1.52	23818.870	0.5	62390.200	1.5
258.8966	26.02	-4.92	144643.240	5.0	183457.150	4.0	259.1844	24.00	-0.87	8307.570	4.0	46878.610	3.0
258.8997	24.01	-1.97	30864.610	2.5	69478.060	2.5	259.1870	21.00	-5.24	0.000	1.5	38570.640	0.5
258.9054	24.01	-0.43	44307.440	0.5	82920.030	1.5	259.1882	12.00	-3.50	21850.405	0.0	60420.870	1.0
258.9060	90.01	-0.64	1774.465	0.0	40398.522	0.0	259.1957	25.01	-2.26	31661.720	3.0	70231.070	4.0
258.9070	40.01	-0.32	4194.191	0.0	42818.098	0.0	259.1967	25.02	-1.42	94707.200	4.5	133276.400	4.5
258.9073	9.02	-0.23	442748.850	2.5	481361.170	1.5	259.1977	25.01	-1.25	43850.420	2.0	82419.480	3.0
258.9161	9.04	-0.12	784771.000	2.5	823362.000	2.5	259.1980	42.00	-0.28	11050.080	0.0	49630.625	0.0
258.9170	74.01	-0.77	6049.314	0.0	44671.730	0.0	259.1980	76.00	-0.16	11292.053	0.0	49872.598	0.0
258.9187	26.00	-3.56	11976.239	4.0	50586.857	3.0	259.1987	22.01	-4.12	907.960	1.5	39476.870	2.5
258.9190	32.00	-1.12	1371.178	0.0	39993.295	0.0	259.2020	44.00	-0.14	8711.012	0.0	47290.961	0.0
258.9221	28.01	-4.30	98122.630	0.5	136732.740	1.5	259.2036	25.01	-0.20	49427.320	4.0	87995.500	5.0
258.9227	25.02	-2.04	137660.240	3.5	176270.250	2.5	259.2060	77.00	-0.84	0.000	0.0	38579.354	0.0
258.9237	25.02	-4.75	140207.090	2.5	178816.960	2.5	259.2080	18.01	-3.81	151087.250	2.5	189654.780	2.5
258.9271	24.01	-1.92	38269.670	3.5	76879.030	3.5	259.2098	24.01	-6.19	25033.950	3.5	63601.200	3.5
258.9306	25.01	-1.65	67910.260	4.0	106519.100	5.0	259.2102	25.01	-1.04	49291.310	3.0	87858.510	2.0
258.9330	25.02	-4.48	71564.210	1.5	110172.690	1.5	259.2116	6.00	-4.16	81311.010	0.0	119878.000	1.0
258.9390	76.00	-0.32	10082.190	0.0	48701.324	0.0	259.2156	28.01	-2.04	98969.440	5.5	137535.830	5.5
258.9394	22.00	-9.74	6598.749	2.0	45206.270	3.0	259.2170	10.01	-2.14	280268.960	2.5	318835.140	2.5
258.9470	26.02	-3.05	105895.350	1.0	144501.740	2.0	259.2195	10.01	-1.16	280268.960	2.5	318834.780	3.5
258.9488	10.00	-3.91	134459.287	1.0	173065.400	2.0	259.2200	41.00	-0.36	2742.356	0.0	41319.626	0.0
258.9492	26.02	-4.75	149525.630	2.0	188131.700	1.0	259.2216	10.01	-3.60	290583.170	1.5	329148.670	2.5
258.9496	28.01	-2.80	74300.930	1.5	112906.930	1.5	259.2217	23.01	-1.94	11908.270	2.0	50473.760	1.0
258.9510	76.00	-0.19	14760.326	0.0	53377.671	0.0	259.2266	21.01	-3.74	26081.320	2.0	64646.080	1.0
258.9560	24.01	-0.49	48749.570	0.5	87354.620	1.5	259.2274	12.00	-2.45	21870.464	1.0	60435.099	2.0
258.9570	44.00	-0.11	9114.300	0.0	47730.750	0.0	259.2288	24.01	-0.89	48749.570	0.5	87314.000	0.5
258.9650	40.00	-1.44	564.603	0.0	39179.860	0.0	259.2298	25.00	-1.23	25281.040	2.5	63845.320	1.5
258.9694	24.01	-1.66	31351.150	2.5	69954.200	2.5	259.2305	28.01	-2.86	71457.740	3.5	110021.920	4.5
258.9694	24.01	-0.40	30156.940	3.5	68760.000	3.5	259.2310	24.00	-3.67	21810.840	1.0	60374.940	2.0
258.9728	25.01	-0.37	32787.600	4.0	71390.140	3.0	259.2315	24.01	-2.35	38315.000	2.5	76879.030	3.5
258.9775	25.01	-2.39	67910.260	4.0	106512.100	4.0	259.2340	58.01	-0.79	2581.041	0.0	41156.228	0.0
258.9797	25.01	-0.75	68284.380	3.0	106885.900	4.0	259.2380	28.01	-2.51	70706.770	1.5	109269.830	1.5
258.9798	21.00	-0.55	0.000	1.5	38601.500	1.5	259.2389	25.01	-0.08	43536.900	4.0	82099.820	4.0
258.9810	73.01	-0.13	5565.369	0.0	44178.240	0.0	259.2469	28.01	-2.69	98969.440	5.5	137531.18	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
259.3161	26.02	-2.18	84369.920	2.0	122921.370	1.0	259.5349	24.01	-1.86	30219.040	4.5	68737.990	5.5
259.3229	10.01	-2.94	280262.330	3.5	318812.770	3.5	259.5400	42.00	-1.14	10888.765	0.0	49418.471	0.0
259.3231	12.00	-3.02	21870.464	1.0	60420.870	1.0	259.5413	24.00	-3.39	21856.940	3.0	60374.940	2.0
259.3237	9.02	-2.26	348817.600	1.5	387367.920	2.5	259.5426	26.00	-2.36	8154.713	1.0	46672.523	0.0
259.3241	25.02	-2.15	100085.200	1.5	138635.460	2.5	259.5533	9.02	-1.44	349007.250	2.5	387523.470	3.5
259.3255	26.00	-1.42	21999.132	4.0	60549.180	5.0	259.5541	24.00	-3.78	7593.160	2.0	46109.260	2.0
259.3273	10.01	-1.62	280262.330	3.5	318812.770	4.5	259.5545	22.01	-3.19	20951.770	2.5	59467.810	3.5
259.3285	25.01	-1.60	68417.340	2.0	106966.940	2.0	259.5560	24.01	-1.57	38563.150	4.5	77076.960	5.5
259.3298	25.01	-1.50	41190.470	6.0	79739.680	5.0	259.5565	26.00	-6.53	12560.933	3.0	51076.680	4.0
259.3377	25.01	-1.39	29869.110	2.0	68417.340	2.0	259.5581	24.02	-4.92	115570.200	4.0	154085.700	3.0
259.3380	74.00	-1.39	2903.671	0.0	41463.388	0.0	259.5590	73.01	-1.38	0.000	0.0	38526.886	0.0
259.3393	24.02	-3.38	115181.800	2.0	153729.800	1.0	259.5622	26.02	-1.33	79840.120	7.0	118355.010	6.0
259.3398	24.00	-3.29	24282.340	4.0	62830.260	5.0	259.5650	25.02	-1.06	109841.120	3.5	148355.600	3.5
259.3415	26.00	-4.80	17550.180	3.0	56097.850	3.0	259.5663	26.01	-2.76	45044.210	1.5	83558.500	1.5
259.3424	24.00	-2.85	7750.780	0.0	46298.320	1.0	259.5679	10.02	-1.09	314148.000	2.0	352662.050	1.0
259.3428	27.01	-1.75	25317.720	1.0	63865.200	1.0	259.5699	25.01	-1.96	49427.320	4.0	87941.080	4.0
259.3490	24.01	-1.79	44307.440	5	82854.000	5	259.5748	26.02	-2.30	97041.380	3.0	135554.410	4.0
259.3499	23.02	-4.59	102961.280	3.5	141507.700	3.5	259.5765	25.00	-1.39	18705.370	4.5	57218.150	3.5
259.3508	26.00	-1.39	19350.882	5.0	57897.170	5.0	259.5860	8.02	-4.40	290956.620	1.0	329467.980	2.0
259.3564	24.01	-2.72	35569.020	2.5	74114.480	3.5	259.5878	23.03	-0.00	215957.700	3.0	254468.800	2.0
259.3577	22.00	-7.78	6661.003	3.0	45206.270	3.0	259.5934	26.02	-2.72	79844.740	6.0	118355.010	6.0
259.3578	25.01	-1.57	29951.120	1.0	68496.370	1.0	259.5970	28.01	-2.04	55018.710	2.5	93528.440	3.5
259.3580	25.01	-2.06	68417.340	2.0	106962.560	1.0	259.5973	12.00	-2.80	21911.178	2.0	60420.870	1.0
259.3588	25.00	-3.88	17451.520	2.5	55996.620	1.5	259.5988	27.00	-1.59	4690.180	2.5	43199.650	2.5
259.3598	29.01	-4.39	95565.650	4.0	134110.600	5.0	259.5997	25.02	-3.33	97271.760	5.5	135781.090	5.5
259.3599	10.02	-1.12	314148.000	2.0	352692.930	2.0	259.6000	78.00	-1.15	15405.586	0.0	53926.387	0.0
259.3625	23.01	-2.86	13609.000	4.0	52153.550	5.0	259.6000	76.01	2.14	24358.571	0.0	62879.372	0.0
259.3636	22.00	-1.15	0.000	2.0	38544.380	3.0	259.6065	26.01	-3.05	48039.230	2.5	86547.550	2.5
259.3660	73.01	-1.70	4355.506	0.0	42911.061	0.0	259.6070	26.00	-1.31	22249.430	3.0	60757.680	4.0
259.3674	10.01	-2.26	280268.960	2.5	318812.770	3.5	259.6090	57.01	0.00	16454.134	0.0	54973.600	0.0
259.3700	44.00	-1.41	12743.888	0.0	51298.648	0.0	259.6120	73.00	-1.44	0.000	0.0	38519.021	0.0
259.3700	42.01	-1.49	11937.313	0.0	50492.273	0.0	259.6162	24.01	-1.63	35607.600	3.5	74114.480	3.5
259.3725	26.01	-1.13	8846.760	5	47389.820	1.5	259.6270	26.00	-1.96	22249.430	3.0	60754.710	4.0
259.3732	25.01	-1.37	0.000	3.0	38542.960	3.0	259.6277	26.01	-4.21	62244.570	1.5	100749.750	2.5
259.3744	10.01	-4.14	280262.330	3.5	318805.100	2.5	259.6282	27.02	-4.96	130183.800	3.5	168688.900	2.5
259.3848	25.02	-3.88	97739.860	6.5	135781.090	5.5	259.6290	24.01	-3.08	53051.550	1.5	91556.540	1.5
259.3861	16.02	-1.82	172785.770	1.0	211326.600	1.0	259.6290	70.01	-1.85	31456.433	0.0	69972.932	0.0
259.3867	24.01	-1.44	30219.040	4.5	68760.000	3.5	259.6295	26.01	-4.75	48039.230	2.5	86544.140	1.5
259.3867	23.01	-4.62	8640.210	2.0	47181.170	3.0	259.6352	23.01	-3.56	13741.610	3.0	52245.680	2.0
259.3868	11.00	-3.32	0.000	5.0	38540.930	1.5	259.6354	9.02	-3.40	445006.130	2.5	483510.170	2.5
259.3889	23.01	-3.97	12545.150	4.0	51085.770	3.0	259.6358	24.01	-1.70	35610.500	4.5	74114.480	3.5
259.3900	76.00	-1.35	16131.504	0.0	54683.491	0.0	259.6370	76.00	-1.75	10969.423	0.0	49484.735	0.0
259.3918	23.01	-3.24	13542.680	3.0	52082.880	0.0	259.6450	73.01	-1.35	2581.041	0.0	41095.166	0.0
259.3919	11.00	-3.62	0.000	5	38540.180	5	259.6498	25.01	-4.87	43311.000	1.0	81812.900	2.0
259.3963	27.01	-2.56	47807.200	4.0	86346.730	3.0	259.6525	24.02	-2.91	70291.800	2.0	108793.300	3.0
259.3964	17.02	-1.21	204541.200	2.5	243080.770	1.5	259.6540	9.02	-1.50	351236.350	5	389737.630	5
259.3985	24.00	-4.08	8307.570	4.0	46846.770	3.0	259.6557	22.00	-1.12	170.132	3.0	38670.710	4.0
259.3997	28.01	-2.89	77736.790	4.5	116275.810	3.5	259.6590	25.02	-2.73	94397.200	3.5	132897.740	2.5
259.4020	24.00	-2.36	7810.820	1.0	46349.500	2.0	259.6610	73.00	-1.35	1935.780	0.0	40447.532	0.0
259.4065	18.02	-1.11	242923.960	1.0	281461.970	2.0	259.6618	26.00	-3.57	6928.266	5.0	45428.385	4.0
259.4120	72.00	-1.11	4516.821	0.0	43065.539	0.0	259.6640	56.00	-1.45	0.000	0.0	38511.307	0.0
259.4126	25.01	-1.97	43850.420	2.0	82387.530	3.0	259.6658	18.02	-1.75	186903.050	2.0	225402.590	3.0
259.4140	76.00	-1.13	12663.231	0.0	51211.652	0.0	259.6670	74.00	-1.19	15324.929	0.0	53835.791	0.0
259.4152	26.00	-1.69	7376.762	4.0	45913.480	3.0	259.6686	26.01	-1.54	65109.710	3.5	103608.820	4.5
259.4159	27.00	-2.05	1809.330	1.5	40345.950	2.5	259.6690	76.00	-1.78	4113.534	0.0	42624.099	0.0
259.4178	25.01	-1.76	48333.060	5.0	86869.990	6.0	259.6753	25.01	-1.16	29919.220	2.0	68417.340	2.0
259.4191	10.01	-3.59	280268.960	2.5	318805.100	2.5	259.6755	23.03	-1.08	226521.600	0.0	265019.700	1.0
259.4202	24.01	-1.89	49006.150	1.5	87542.120	5	259.6770	42.00	-1.05	21212.928	0.0	59722.307	0.0
259.4208	25.00	-2.55	23818.870	5	62354.760	1.5	259.6780	75.00	-1.11	15647.559	0.0	54156.790	0.0
259.4231	25.01	-1.74	41204.340	5.0	79739.680	5.0	259.6839	25.01	-1.10	43696.190	3.0	82193.040	2.0
259.4247	10.01	-3.57	280268.960	2.5	318804.260	1.5	259.6839	24.00	-2.71	27597.220	3.0	66094.060	4.0
259.4250	73.01	-1.03	0.000	0.0	38546.786	0.0	259.6876	24.01	-1.36	32355.940	3.5	70852.240	3.5
259.4270	26.02	-4.45	143883.740	5.0	182418.700	4.0	259.6888	26.02	-4.61	143883.740	5.0	182379.860	5.0
259.4319	24.01	-1.94	42898.120	2.5	81432.360	3.5	259.6899	8.02	-2.57	32722.940	1.0	365723.900	1.0
259.4340	41.01	-1.74	725.918	0.0	39271.367	0.0	259.6943	26.01	-1.72	46967.470	2.5	85462.780	3.5
259.4389	23.01	-1.78	34745.720	3.0	73278.920	4.0	259.6950	75.00	-1.23	16212.162	0.0	54718.872	0.0
259.4390	25.01	-1.06	32856.950	3.0	71390.140	3.0	259.6978	23.00	-5.70	2424.890	4.5	40919.680	5.5
259.4402	24.02	-1.45	115552.700	3.0	154085.700	3.0	259.6991	26.02	-4.54	79860.420	5.0	118355.010	6.0
259.4408	18.02	-1.33	187823.050	2.0	226355.960	2.0	259.7050	90.01	-1.87	0.000	0.0	38505.227	0.0
259.4409	25.01	-1.19	68417.340	2.0	106950.240	3.0	259.7072	30.02	-1.84	219684.900	3.0	258178.300	4.0
259.4420	50.00	-1.08	8549.697	0.0	47093.957	0.0	259.7086	26.01	-2.10	54902.420	1.5	93395.600	2.5
259.4469	26.01	-2.02	44446.890	3.5	82978.900	4.5	259.7094	22.01	-3.05	983.800	2.5	39476.870	2.5
259.4517	25.01	-1.46	32858.840	2.0	71390.140	3.0	259.7140	41.00	-1.57	1532.493	0.0	40036.386	0.0
259.4517	26.01	-4.34	61156.900	3.5	99688.200	3.5	259.7146	27.02	-4.80	132587.000	4.5	171079.300	3.5
259.4542	25.01	-1.26	30684.810	1.0	69215.730	1.0	259.7146	27.02	-4.80	132587.000	4.5	171079.300	3.5
259.4588	23.01	-1.97	30267.460	2.0	68797.700	2.0	259.7160	20.02	-1.55	347758.220	2.0	386250.310	3.0
259.4629	22.00	-1.05	170.132	3.0	38699.767	2.0	259.7170	23.01	-1.13	30267.460	2.0	68759.400	1.0
259.4655	25.02	-1.99	137935.530	4.5	176464.780	3.5	259.7180	28.01	-4.66	79823.330	3.5	118314.820	2.5
259.4677													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
259.7938	26.01	-1.27	36126.410	1.5	74606.970	2.5	260.0781	28.01	-1.18	67694.640	2.5	106133.140	1.5
259.7939	26.00	-7.95	11976.239	4.0	50456.790	3.0	260.0870	75.00	-5.54	14518.354	0.0	52967.027	0.0
259.7945	26.00	-1.56	18378.187	2.0	56858.650	2.0	260.0890	90.01	-1.12	6129.972	0.0	44578.349	0.0
259.7949	27.01	-2.86	24886.500	2.0	63366.900	2.0	260.0961	18.01	-1.40	161089.310	0.5	199525.150	1.5
259.7962	24.00	-3.17	21810.840	1.0	60291.040	1.0	260.0978	27.00	-1.83	3482.820	4.5	41918.410	3.5
259.7973	28.01	-4.19	94729.250	2.5	133209.300	2.5	260.1026	28.01	-3.34	53365.170	4.5	91800.050	4.5
259.8030	26.01	-1.29	26352.800	4.5	64832.000	4.5	260.1034	24.01	-1.27	36272.660	4.5	74707.420	5.5
259.8050	51.00	.81	8469.040	0.0	46959.446	0.0	260.1045	28.01	-2.85	76402.030	2.5	114836.630	3.5
259.8063	24.01	-1.30	38509.070	3.5	76987.780	2.5	260.1060	73.00	-5.50	5968.656	0.0	44414.520	0.0
259.8079	28.01	-2.86	99040.750	1.5	137519.230	2.5	260.1083	23.01	-2.20	34592.720	2.0	73026.760	2.0
259.8116	25.01	-.91	49517.580	5.0	87995.500	5.0	260.1091	26.02	-4.45	90483.590	3.0	128917.510	2.0
259.8168	25.00	-1.47	25287.740	3.5	63764.900	2.5	260.1124	25.01	-.68	48435.960	6.0	86869.390	6.0
259.8179	23.01	-1.32	34745.720	3.0	73222.720	4.0	260.1142	21.00	-4.34	168.340	2.5	38601.500	1.5
259.8211	18.01	-2.44	161048.640	1.5	199525.150	1.5	260.1160	17.02	.30	201073.400	5.5	239506.300	1.5
259.8212	24.00	-2.31	27703.840	4.0	66180.340	5.0	260.1191	28.01	-4.36	68709.760	.5	107142.210	1.5
259.8249	25.01	.10	49465.130	3.0	87941.080	4.0	260.1290	41.01	.58	10082.190	0.0	48524.655	0.0
259.8293	23.03	.31	226796.300	2.0	265271.600	3.0	260.1303	25.00	-1.92	23296.670	3.5	61727.460	2.5
259.8368	26.01	-.01	384.770	3.5	38858.960	2.5	260.1312	24.00	-3.37	21810.840	1.0	60241.500	0.0
259.8389	23.01	-3.15	13609.000	4.0	52082.880	4.0	260.1357	17.02	-.85	216710.400	3.5	255140.400	2.5
259.8395	25.01	-.13	43339.100	2.0	81812.900	2.0	260.1362	22.01	-3.41	20891.880	3.5	59321.790	2.5
259.8411	23.00	-4.32	137.380	2.5	38610.940	3.5	260.1412	25.00	-3.32	24802.250	3.5	63231.430	4.5
259.8420	74.00	-.09	17583.339	0.0	56068.264	0.0	260.1482	25.00	-3.71	17568.480	1.5	55996.620	1.5
259.8441	26.02	-2.55	84369.920	2.0	122843.030	1.0	260.1524	25.01	-.90	32836.400	1.0	71263.920	1.0
259.8445	23.02	-3.41	103034.650	4.5	141507.700	3.5	260.1543	26.01	-1.25	62322.500	3.5	100749.750	2.5
259.8459	28.01	-3.87	76402.030	2.5	114874.880	2.5	260.1559	26.01	-.36	65556.340	4.5	103983.350	3.5
259.8521	25.02	-3.56	71564.210	1.5	110036.140	5.5	260.1593	24.01	-1.29	30156.940	3.5	68583.440	2.5
259.8541	25.01	-3.06	55759.270	3.0	94230.900	2.0	260.1595	26.01	-1.86	62065.570	3.5	100492.040	3.5
259.8613	25.01	-1.70	68496.370	1.0	106966.940	2.0	260.1606	25.01	-1.54	49291.310	3.0	87717.620	3.0
259.8642	25.01	-3.15	31760.930	2.0	70231.070	2.0	260.1615	26.01	-1.86	54902.420	1.5	93328.600	1.5
259.8646	23.01	-3.04	34946.550	4.0	73416.630	5.0	260.1639	25.01	-1.70	67744.080	6.0	106169.900	6.0
259.8711	22.01	-3.09	8997.690	3.5	47466.800	3.5	260.1707	25.01	-2.56	67744.080	6.0	106168.900	5.0
259.8739	27.02	-2.78	91715.100	2.5	130183.800	3.5	260.1723	26.00	-1.94	7985.783	2.0	46410.366	1.0
259.8740	74.01	.51	8630.355	0.0	47110.542	0.0	260.1724	9.02	-2.65	426989.570	3.5	465414.140	2.5
259.8750	73.00	-1.01	5968.656	0.0	44448.694	0.0	260.1760	49.00	-.86	2177.753	0.0	40613.274	0.0
259.8799	26.01	-1.69	60625.470	5.5	99093.290	5.5	260.1788	25.01	-2.06	67744.080	6.0	106167.700	7.0
259.8802	23.01	-4.65	8640.210	2.0	47107.980	1.0	260.1796	25.01	-1.43	49517.580	5.0	87941.080	4.0
259.8812	29.01	-.71	69867.810	2.0	108335.430	2.0	260.1835	25.01	.39	55759.270	3.0	94182.200	3.0
259.8827	24.02	-4.01	69780.900	1.0	108248.300	1.0	260.1840	41.00	-.70	1532.493	0.0	39966.832	0.0
259.8907	25.01	-.07	29951.120	1.0	68417.340	2.0	260.1859	24.01	-1.80	31531.620	1.5	69954.200	2.5
259.8908	25.01	-1.66	32856.950	3.0	71323.150	2.0	260.1870	75.00	-.33	16212.162	0.0	54646.058	0.0
259.8909	25.01	-1.67	68496.370	1.0	106962.560	1.0	260.1896	24.00	-4.60	7927.470	2.0	46349.500	2.0
259.8914	23.01	-5.71	25191.080	2.0	63657.200	2.0	260.1953	23.01	-3.80	14655.630	5.0	53076.820	6.0
259.8952	25.01	-1.30	43528.300	5.0	81993.850	4.0	260.1960	74.00	-.44	4758.794	0.0	43191.360	0.0
259.8986	22.00	-8.10	6598.749	2.0	45063.800	2.0	260.1966	25.01	-.13	43311.000	1.0	81732.000	1.0
259.9017	25.01	-.24	46903.260	2.0	85367.850	2.0	260.2040	77.00	.07	16454.134	0.0	54885.519	0.0
259.9036	25.01	-.06	32858.840	2.0	71323.150	2.0	260.2132	26.02	-2.46	145038.610	3.0	183457.150	4.0
259.9040	77.00	.02	7017.204	0.0	45492.949	0.0	260.2149	18.02	-3.45	204727.470	1.0	243145.760	2.0
259.9079	25.01	-2.80	53597.130	2.0	92060.800	1.0	260.2164	26.02	-3.42	145038.610	3.0	183456.690	3.0
259.9090	22.00	-6.66	6742.757	4.0	45206.270	3.0	260.2175	17.02	-4.93	179495.200	2.5	217913.100	1.5
259.9091	26.01	-4.07	33501.320	3.5	71964.810	2.5	260.2179	25.00	-.65	23296.670	3.5	61714.520	4.5
259.9111	28.02	-4.10	79143.300	2.0	117606.500	3.0	260.2290	26.01	-1.75	61156.900	3.5	99573.110	4.5
259.9124	28.02	-3.37	75646.900	4.0	114109.900	3.0	260.2316	25.00	-1.92	27201.540	2.5	65617.370	3.5
259.9130	76.00	.08	14276.381	0.0	52750.794	0.0	260.2330	76.00	-.42	8630.355	0.0	47057.457	0.0
259.9139	26.02	-2.02	144968.500	4.0	183431.280	5.0	260.2339	26.01	-2.77	45044.210	1.5	83459.700	1.5
259.9200	27.00	-2.19	5075.830	1.5	43537.710	1.5	260.2345	23.03	-3.22	217836.300	3.0	256251.700	4.0
259.9214	23.01	-4.18	8640.210	2.0	47101.680	2.0	260.2354	25.01	-4.64	29869.110	2.0	68284.380	3.0
259.9220	72.01	-.06	15002.299	0.0	53475.379	0.0	260.2357	26.02	-2.94	82410.940	2.0	120826.170	2.0
259.9284	9.02	.59	349266.200	3.5	387726.840	4.5	260.2380	28.01	-2.72	51045.460	4.5	89460.350	5.5
259.9324	25.01	-1.97	68496.370	1.0	106956.420	0.0	260.2380	73.00	-.71	5968.656	0.0	44395.020	0.0
259.9352	26.02	-3.67	84369.920	2.0	122829.550	3.0	260.2407	25.01	-.48	44521.520	4.0	82936.010	3.0
259.9395	26.01	.44	.0000	4.5	38458.990	4.5	260.2419	25.00	-1.27	23296.670	3.5	61710.980	3.5
259.9454	24.00	-4.00	24303.940	3.0	62762.060	4.0	260.2495	12.00	-2.17	21850.405	0.0	60263.583	1.0
259.9464	26.01	-2.81	54870.620	2.5	93328.000	1.5	260.2510	24.00	-1.71	8307.570	4.0	46720.540	4.0
259.9466	26.01	-.66	27620.390	2.5	66078.340	2.5	260.2580	27.00	-2.12	8460.810	2.5	46872.740	3.5
259.9470	18.03	.08	257348.890	1.5	295806.770	1.5	260.2594	24.00	-1.89	27597.220	3.0	66008.950	3.0
259.9489	27.01	-1.95	24886.500	2.0	63344.100	3.0	260.2597	23.01	-7.39	8640.210	2.0	47051.890	3.0
259.9496	23.02	-1.25	56256.750	1.5	94714.250	.5	260.2667	25.01	-4.58	66644.780	1.0	105055.430	2.0
259.9533	25.01	-1.13	43536.900	4.0	81993.850	4.0	260.2670	72.00	-1.16	2339.068	0.0	40761.150	0.0
259.9537	10.01	-4.83	279324.890	1.5	317781.790	1.5	260.2737	25.01	.58	41182.530	7.0	79592.140	6.0
259.9565	26.00	-.68	7376.762	4.0	45833.240	4.0	260.2741	22.00	-9.57	6556.828	1.0	44966.390	1.0
259.9576	26.00	-1.00	21715.753	5.0	60172.060	4.0	260.2773	26.00	-2.19	7728.058	3.0	46137.140	3.0
259.9626	23.00	-4.69	553.020	4.5	39008.600	5.5	260.2788	26.01	-1.04	62083.170	4.5	100492.040	3.5
259.9640	42.00	-.37	12259.943	0.0	50726.808	0.0	260.2800	42.01	.46	11695.340	0.0	50115.503	0.0
259.9733	24.02	-2.37	70980.200	1.0	109434.200	2.0	260.2800	74.00	-1.09	3306.958	0.0	41727.121	0.0
259.9755	23.02	-3.87	103034.650	4.5	141488.320	4.5	260.2813	26.01	-4.37	23317.600	2.5	61726.090	3.5
259.9828	28.01	-3.84	77332.470	2.5	115785.060	1.5	260.2870	72.00	-1.75	.0000	0.0	38419.130	0.0
259.9860	75.00	.05	13711.778	0.0	52175.388	0.0	260.2901	24.00	-4.85	7593.160	2.0	46000.360	3.0
259.9885	26.02	-4.86	143320.850	6.0	181772.590	6.0	260.2906	24.01	-.08	49006.150	1.5	87413.270	2.5
259.9910	76.00	-.01	10969.423	0.0	49								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
260.3551	23.03	-3.32	217350.000	3.0	255747.600	3.0
260.3564	24.00	-1.44	8307.570	4.0	46704.980	5.0
260.3609	26.00	-4.29	12968.552	2.0	51365.300	3.0
260.3620	28.01	-.88	99132.780	5.5	137529.370	6.5
260.3690	15.01	-1.59	65273.180	2.0	103668.740	3.0
260.3723	25.01	-.07	29889.310	3.0	68284.380	3.0
260.3731	24.01	-1.82	31083.110	1.5	69478.060	2.5
260.3800	76.00	-.21	13308.491	0.0	51713.898	0.0
260.3820	73.00	-.41	9920.875	0.0	48325.987	0.0
260.3832	26.01	-2.90	22939.350	2.5	61332.820	1.5
260.3838	25.01	-.17	49465.130	3.0	87858.510	2.0
260.3855	12.00	-2.29	21870.464	1.0	60263.583	1.0
260.3855	12.00	-1.99	21870.464	1.0	60263.583	2.0
260.3870	25.01	-1.75	43339.100	2.0	81732.000	1.0
260.3870	26.00	-7.14	12968.552	2.0	51361.460	3.0
260.3963	25.01	-3.64	35004.430	3.0	73395.970	2.0
260.4007	25.01	-2.02	67766.510	2.0	106157.400	3.0
260.4013	30.02	-2.37	219684.900	3.0	258075.700	3.0
260.4020	25.01	-.42	35004.430	3.0	73395.120	3.0
260.4047	26.01	-.85	44915.070	3.5	83305.370	3.5
260.4052	24.00	-1.83	27703.840	4.0	66094.060	4.0
260.4090	22.01	-2.21	1087.210	3.5	39476.870	2.5
260.4104	25.01	-2.48	31760.930	2.0	70150.970	1.0
260.4154	25.02	-4.72	94697.850	3.5	133086.570	4.5
260.4164	24.01	-1.25	31117.590	2.5	69506.160	3.5
260.4185	28.01	-2.95	71457.740	3.5	109846.000	3.5
260.4216	25.01	-2.04	41204.340	5.0	79592.140	6.0
260.4380	74.00	.22	17018.737	0.0	55415.592	0.0
260.4381	28.01	-2.77	74300.930	1.5	112686.300	2.5
260.4421	14.01	-2.73	65500.730	.5	103885.510	1.5
260.4434	27.01	-.27	11651.310	2.0	50035.900	3.0
260.4454	25.01	-4.86	53698.700	2.0	92083.000	3.0
260.4511	23.01	-2.93	11514.760	1.0	49898.220	2.0
260.4550	77.00	-.02	12985.861	0.0	51380.209	0.0
260.4564	26.01	-2.51	44753.820	3.5	83136.500	3.5
260.4581	24.01	-3.66	36101.820	3.5	74484.250	2.5
260.4585	25.02	-3.76	138312.700	4.5	176695.060	4.5
260.4600	76.00	-.44	6049.314	0.0	44442.925	0.0
260.4665	26.01	-2.10	27314.930	3.5	65696.110	4.5
260.4667	28.01	-2.33	99154.810	4.5	137535.960	3.5
260.4676	28.01	-1.18	99154.810	4.5	137535.960	5.5
260.4700	24.00	-3.15	8307.570	4.0	46688.240	3.0
260.4706	9.02	-4.71	426558.910	1.5	464939.500	2.5
260.4759	22.00	-7.59	6661.003	3.0	45040.810	4.0
260.4760	26.01	-2.79	45079.910	2.5	83459.700	1.5
260.4788	25.02	-2.98	94707.200	4.5	133086.570	4.5
260.4822	25.01	-3.65	66676.560	2.0	105055.430	2.0
260.4843	25.02	-4.45	140179.740	2.5	178558.300	1.5
260.4875	17.01	-2.22	119799.000	2.0	158177.100	1.0
260.4884	22.00	-.84	386.874	4.0	38764.832	3.0
260.4960	76.00	-.32	14276.381	0.0	52664.686	0.0
260.4992	28.01	-1.27	99154.810	4.5	137531.180	4.5
260.5024	25.01	-3.33	66644.780	1.0	105020.670	1.0
260.5024	17.02	.23	216710.400	3.5	255086.300	3.5
260.5032	26.01	.35	44929.590	2.5	83305.370	3.5
260.5076	26.01	-1.98	60956.820	3.5	99331.950	4.5
260.5080	42.01	.20	26616.982	0.0	65003.519	0.0
260.5100	3.01	-.32	559501.000	0.0	597887.242	0.0
260.5101	24.01	-2.99	53051.550	1.5	91426.110	2.5
260.5108	23.01	-6.44	16340.970	3.0	54715.630	2.0
260.5136	22.00	-.17	170.132	3.0	38544.380	3.0
260.5201	24.00	-4.95	7593.160	2.0	45966.450	2.0
260.5306	26.01	.01	36126.410	1.5	74498.150	1.5
260.5320	73.00	-.48	9194.957	0.0	47577.958	0.0
260.5333	28.01	-.53	55018.710	2.5	93390.060	2.5
260.5350	44.00	-.11	8469.040	0.0	46851.599	0.0
260.5367	24.00	-3.35	7927.470	2.0	46298.320	1.0
260.5394	23.02	-4.09	103034.650	4.5	141405.100	5.5
260.5405	28.01	-4.39	79923.880	4.5	118294.170	3.5
260.5410	8.02	-.80	329581.980	1.0	367952.200	1.0
260.5420	26.01	-1.00	26055.400	2.5	64425.460	2.5
260.5423	22.01	-2.06	20951.770	2.5	59321.790	2.5
260.5427	24.01	-2.08	38509.070	3.5	76879.030	3.5
260.5494	25.01	-2.55	66686.450	3.0	105055.430	2.0
260.5510	74.00	-.95	3306.958	0.0	41687.160	0.0
260.5513	28.01	-1.70	99154.810	4.5	137523.510	3.5
260.5585	22.00	-7.19	6598.749	2.0	44966.390	1.0
260.5609	24.01	-.88	39742.360	2.5	78109.640	1.5
260.5613	23.00	-7.30	2220.130	2.5	40587.350	3.5
260.5658	26.00	-2.17	6928.266	5.0	45294.830	5.0
260.5691	25.01	.22	0.000	3.0	38366.070	2.0
260.5721	26.00	-1.11	21999.132	4.0	60364.760	3.0
260.5723	27.01	-.29	24074.600	2.0	62440.200	1.0
260.5753	25.01	.03	29919.220	2.0	68284.380	3.0
260.5762	25.01	-1.46	52653.270	4.0	91018.300	3.0
260.5818	25.02	-1.81	138605.800	6.5	176970.010	5.5
260.5826	26.02	-4.36	144116.640	3.0	182480.720	2.0
260.5839	28.01	-4.07	99418.610	3.5	137782.500	4.5
260.5860	44.00	-.10	9114.300	0.0	47489.347	0.0
260.5869	24.00	-2.40	27816.880	5.0	66180.340	5.0
260.5900	26.01	-1.01	38214.500	1.5	76577.500	.5
260.5930	42.01	-.03	17260.709	0.0	55634.725	0.0
260.5956	27.01	-.75	25147.200	4.0	63509.370	4.0
260.5961	25.01	-2.47	53698.700	2.0	92060.800	1.0
260.5968	25.02	-4.18	94697.850	3.5	133059.840	3.5
260.5990	26.02	-4.34	141399.040	2.0	179760.720	3.0
260.5997	10.01	-1.12	280473.580	1.5	318835.140	2.5
260.6002	25.02	-2.29	100001.300	2.5	138362.800	3.5
260.6010	69.01	-1.09	0.000	0.0	38372.838	0.0
260.6035	9.04	-.49	784771.000	2.5	823132.000	1.5
260.6045	22.01	-4.12	29968.080	4.5	68328.950	4.5
260.6056	15.01	-.65	65308.050	3.0	103668.740	3.0
260.6058	9.02	-.30	349007.250	2.5	387367.920	2.5
260.6072	24.01	-1.19	31117.590	2.5	69478.060	2.5
260.6073	26.02	-4.28	141399.040	2.0	179759.040	2.0
260.6085	14.01	-3.03	65500.730	.5	103861.000	.5
260.6117	25.01	-1.14	30684.810	1.0	69044.610	2.0
260.6121	27.00	-1.42	5075.830	1.5	43435.580	.5
260.6140	25.00	-3.86	17637.150	.5	55996.620	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
260.6206	25.03	-3.66	137930.100	5.0	176286.600	5.0
260.6237	25.01	-.39	43528.300	5.0	81886.330	5.0
260.6244	28.01	-4.19	99418.610	3.5	137776.550	3.5
260.6250	28.01	-.13	56371.410	3.5	94729.250	2.5
260.6279	23.01	-7.62	25191.080	2.0	63548.500	1.0
260.6291	18.01	-1.15	161089.310	.5	199446.540	.5
260.6312	26.02	-4.33	150654.900	3.0	189011.840	4.0
260.6370	72.01	-.39	2984.328	0.0	41351.866	0.0
260.6390	74.00	-.77	0.000	0.0	38367.244	0.0
260.6396	28.02	-3.42	79250.800	4.0	117606.500	3.0
260.6409	25.00	-4.69	23719.520	1.5	62075.020	2.5
260.6418	26.01	-4.50	21308.080	1.5	59663.450	1.5
260.6423	23.03	-2.21	217108.000	2.0	255463.300	2.0
260.6430	73.01	.97	15728.216	0.0	54094.871	0.0
260.6440	45.01	1.06	40812.705	0.0	79179.213	0.0
260.6443	17.02	-3.74	179495.200	2.5	217850.200	2.5
260.6506	24.01	-1.30	36101.820	3.5	74455.900	4.5
260.6511	26.01	.24	36252.960	2.5	74606.970	2.5
260.6535	24.01	-.98	29952.080	.5	68305.730	1.5
260.6604	25.02	-2.67	94707.200	4.5	133059.840	3.5
260.6617	25.01	-2.13	67811.750	3.0	106164.200	4.0
260.6619	12.00	-3.47	21911.178	2.0	60263.583	1.0
260.6619	12.00	-2.47	21911.178	2.0	60263.583	2.0
260.6619	12.00	-1.55	21911.178	2.0	60263.583	3.0
260.6628	26.01	-1.10	22637.190	4.5	60989.480	4.5
260.6647	26.01	-2.67	45206.490	.5	83558.500	.5
260.6666	26.01	-2.63	44784.780	2.5	83136.500	3.5
260.6701	25.02	-4.18	140207.090	2.5	178558.300	1.5
260.6743	28.01	-3.57	77736.790	4.5	116087.380	4.5
260.6791	27.00	-2.78	5075.830	1.5	43425.710	2.5
260.6816	28.01	-4.90	95573.390	3.5	133922.910	4.5
260.6822	25.01	.06	43536.900	4.0	81886.330	5.0
260.6828	26.00	-.36	7376.762	4.0	45726.104	5.0
260.6875	22.01	-3.20	9118.150	4.5	47466.800	3.5
260.6887	24.01	-1.04	49006.150	1.5	87354.620	1.5
260.6900	74.00	-.05	17018.737	0.0	55378.475	0.0
260.6968	27.01	-1.80	25317.720	1.0	63665.000	1.0
260.6969	23.01	-2.75	34946.550	4.0	73293.820	5.0
260.7016	26.01	-3.11	22810.330	3.5	61156.900	3.5
260.7030	72.01	.07	6291.287	0.0	44649.112	0.0
260.7050	69.01	-.48	161.315	0.0	38518.846	0.0
260.7052	24.01	-1.08	30391.940	6.5	68737.990	5.5
260.7079	25.01	-3.27	67811.750	3.0	106157.400	3.5
260.7080	26.01	-.08	667.640	2.5	39013.280	1.5
260.7124	10.01	-4.01	290803.820	.5	329148.800	1.5
260.7184	25.01	-3.61	66676.560	2.0	105020.670	1.0
260.7240	72.01	.10	14276.381	0.0	52631.116	0.0
260.7250	25.02	-3.74	138340.620	2.5	176683.760	2.5
260.7271	24.00	-4.05	20517.400	2.0	58860.230	2.0
260.7285	25.01	-.49	43850.420	2.0	82193.040	2.0
260.7295	26.01	-2.33	60989.480	4.5	99331.950	4.5
260.7350	22.01	-3.77	30240.680	5.5	68582.340	5.5
260.7370	42.00	.26	11050.080	0.0	49402.903	0.0
260.7377	23.01	-7.39	13741.610	3.0	52082.880	4.0
260.7380	74.00	-.90	1613.150	0.0	39965.826	0.0
260.7388	25.01	-2.85	53698.700	2.0	92039.800	2.0
260.7409	24.02	-3.36	115552.700	3.0	153893.500	2.0
260.7415	25.02	-3.81	71831.980	2.5	110172.690	1.5
260.7434	26.01	-1.95	62151.610	2.5	100492.040	3.5
260.7480	90.01	-1.60	1451.835	0.0	39803.040	0.0
260.7504	27.01	-1.63	47537.100	2.0	85876.500	1.0
260.7509	25.02	-2.37	100001.300	2.5	138340.620	2.5
260.7510	24.00	-3.43	20520.920	3.0	58860.230	2.0
260.7518	23.01	-3.43	8841.970	3.0	47181.170	3.0
260.7520	77.00	-.02	12985.861	0.0	51336.478	0.0
260.7583	10.01	-4.67	279324.890	1.5	317663.130	1.5
260.7599	27.01	-4.08	9812.700	4.0	48150.700	3.0
260.7633	23.03	-1.09	217108.000	2.0	255445.500	3.0
260.7641	24.01	-1.46	31168.780	3.5	69506.160	3.5
260.7803	17.01	-2.60	119842.100	1.0	158177.100	1.0
260.7818	24.01	-1.80	42898.120	2.5	81232.910	2.5
260.7821	26.00	-1.91	19562.435	4.0	57897.170	5.0
260.7835	25.01	-.46	43528.300	5.0	81862.840	4.0
260.7850	24.01	-1.01	36101.820	3.5	74436.140	2.5
260.7882	26.01	-1.81	62158.190	4.5	100492.040	3.5
260.7913	24.01	-.30	30143.720	5.5	68477.110	4.5
260.7958	26.02	-4.20	144085.970	4.0	182418.700	4.0
260.7982	23.01	-.06	34946.550	4.0	73278.920	4.0
260.7990	25.02	-1.94	138362.800	3.5	176695.060	4.5
260.8001	24.02	-2.67	120699.700	3.0	159031.800	2.0
260.8040	10.01	-2.85	280473.580	1.5	318805.100	2.5
260.8056	26.02	-2.83	82494.880	1.0	120826.170	2.0
260.8060	18.03	-.73	250906.600	1.5	289237.820	1.5
260.8073	23.01	-2.94	30613.970	4.0	68945.000	3.0
260.8095	23.02	-2.17	106441.310	4.5	144772.020	3.5
260.8097	10.01	-2.19	280473.580	1.5	318804.260	1.5
260.8103	26.02	-1.35	83138.230	5.0	121468.820	5.0
260.8178	24.01	-1.12	31168.780	3.5	69498.270	4.5
260.8200	73.00	-1.44	1935.780	0.0	40276.398	0.0
260.8250	25.02	-4.96	138312.700	4.5	176641.140	3.5
260.8250	77.00	-.11	6291.287	0.0	44631.170	0.0
260.8252	17.01	-.76	146330.000	1.0	184658.400	2.0
260.8276	18.02	.63	243145.760	2.0	281473.820	3.0
260.8291	26.00	-2.04	7985.783	2.0	46313.610	2.0
260.8320	74.00	-.28	6129.972	0.0	44468.826	0.0
260.8320	90.01	-.85	8307.725	0.0	46646.579	0.0
260.8331	24.00	-1.84	8095.210	3.0	46422.460	4.0
260.8395	24.00	-2.73	7750.780	0.0	46077.090	1.0
260.8420	25.01	-.24	43536.900	4.0	81862.840	4.0
260.8440	18.03	-.62	257348.890	1.5	295674.540	.5
260.8449	25.01	-1.00	44745.460	2.0	83070.970	2.0
260.8450	72.00	-1.12	0.000	0.0	38336.943	0.0
260.8451	22.01	-4.51	907.960	1.5	39233.440	1.5
260.8477	23.00	-7.52	2112.320	.5	40437.420	1.5
260.8484	24.02	-4.13	63420.300	3.0	101745.300	3.0
260.8500	75.01	1.35	14276.381	0.0	52612.590	0.0
260.8511	17.01	-1.50	146333.800	2.0	184658.400	2.0
260.8537	27.00	-2.87	7442.410	3.5	45766.630	3.5
260.8553	22.00	-7.81	6598.749	2.0	44922.730	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
260.8554	25.01	-3.08	67845.930	5.0	106169.900	6.0	261.1140	26.01	-3.85	60807.280	4.5	99093.290	5.5
260.8601	24.01	-2.78	32355.940	3.5	70679.220	4.5	261.1177	24.01	-2.63	53271.070	2.5	91556.710	1.5
260.8622	25.01	-1.88	67845.930	5.0	106168.900	5.0	261.1200	42.00	.62	20809.640	0.0	59106.209	0.0
260.8624	26.02	-4.97	144085.970	4.0	182408.910	3.0	261.1221	21.01	.06	26081.320	2.0	64366.150	2.0
260.8630	73.00	-.01	1935.780	0.0	40270.078	0.0	261.1262	23.00	-7.32	2159.200	1.5	40437.420	1.5
260.8668	23.01	-3.68	9097.810	4.0	47420.100	4.0	261.1284	26.02	-4.18	141399.040	2.0	179682.940	1.0
260.8685	26.02	-1.65	93388.750	4.0	131710.790	5.0	261.1289	22.00	-.02	386.874	4.0	38670.710	4.0
260.8687	24.01	-4.53	36101.820	3.5	74423.840	3.5	261.1300	77.00	-.15	2823.013	0.0	4118.115	0.0
260.8695	23.01	-4.18	14556.090	4.0	52877.990	5.0	261.1330	76.00	.10	14760.326	0.0	53054.988	0.0
260.8729	17.01	-.58	146333.800	2.0	184655.200	3.0	261.1338	26.01	-2.34	22810.330	3.5	61093.440	2.5
260.8759	25.02	-3.54	138362.800	3.5	176683.760	2.5	261.1340	73.00	-.42	3871.561	0.0	42166.076	0.0
260.8797	25.01	-1.36	43339.100	2.0	81659.500	3.0	261.1418	10.02	-.44	353148.000	3.0	391429.940	3.0
260.8809	28.01	-4.69	52205.950	3.5	90526.180	2.5	261.1441	17.02	.32	204541.200	2.5	242822.800	2.5
260.8813	24.01	-1.61	30156.940	3.5	68477.110	4.5	261.1471	22.00	-1.26	170.132	3.0	38451.298	2.0
260.8840	41.00	-.72	2097.096	0.0	40428.308	0.0	261.1479	23.01	-.58	34745.720	3.0	73026.760	2.0
260.8849	26.01	-1.17	22637.190	4.5	60956.820	3.5	261.1634	24.01	-1.37	31219.490	4.5	69498.270	4.5
260.8860	42.00	-.15	20809.640	0.0	59140.558	0.0	261.1647	28.01	-1.52	32499.530	4.5	70778.120	3.5
260.8903	27.00	-1.93	14036.280	1.5	52359.120	.5	261.1697	26.02	-4.26	141399.040	2.0	179676.890	2.0
260.8942	25.01	-2.53	67845.930	5.0	106164.200	4.0	261.1714	30.02	-1.35	219684.900	3.0	257962.500	2.0
260.8960	41.01	.12	9759.560	0.0	48089.009	0.0	261.1741	25.01	-2.66	53805.800	4.0	92083.000	3.0
260.8990	81.00	-1.03	7743.122	0.0	46072.131	0.0	261.1743	24.00	-1.78	27816.880	5.0	66094.060	4.0
260.9000	73.00	-.34	5968.656	0.0	44297.518	0.0	261.1812	23.01	-.21	34946.550	4.0	73222.720	4.0
260.9060	44.00	.53	7985.094	0.0	46313.074	0.0	261.1812	11.01	-.55	293224.120	1.0	331500.290	2.0
260.9082	18.02	-.32	243145.760	2.0	281461.970	2.0	261.1816	30.02	-2.42	264632.400	3.0	302908.500	4.0
260.9105	24.01	-1.28	38563.150	4.5	76879.030	3.5	261.1825	23.00	-7.96	2311.370	3.5	40587.350	3.5
260.9122	26.01	-.48	31999.120	3.5	70314.740	4.5	261.1834	24.01	-2.11	30307.600	1.5	68583.440	2.5
260.9134	23.01	-1.81	34592.720	2.0	72908.170	3.0	261.1873	26.01	.06	384.770	3.5	38660.040	3.5
260.9200	76.00	-.08	8630.355	0.0	46956.279	0.0	261.1941	25.01	-1.38	43528.300	5.0	81802.580	6.0
260.9230	24.01	-.10	49351.960	2.5	87666.000	2.5	261.1950	25.02	-2.11	94697.850	3.5	132971.990	3.5
260.9284	28.01	-1.45	67694.640	2.5	106007.890	2.5	261.2018	24.00	-3.42	8095.210	3.0	46368.350	3.0
260.9314	29.02	-1.58	80551.500	2.5	118864.300	3.5	261.2040	77.00	-1.11	6291.287	0.0	44575.540	0.0
260.9430	40.00	-.95	564.603	0.0	38887.149	0.0	261.2070	44.00	.79	7420.492	0.0	45704.305	0.0
260.9432	26.01	-1.22	27620.390	2.5	65931.460	3.5	261.2106	23.01	-4.26	30673.140	2.0	68945.000	3.0
260.9480	44.00	-.12	10566.135	0.0	48887.946	0.0	261.2130	24.02	-4.74	63172.200	2.0	101443.700	2.0
260.9499	17.02	.69	201765.100	2.5	240075.200	3.5	261.2158	23.03	-.94	226796.300	2.0	265067.400	2.0
260.9554	24.01	-2.05	31168.780	3.5	69478.060	2.5	261.2190	74.00	.41	19519.120	0.0	57801.175	0.0
260.9558	25.01	.00	44521.520	4.0	82830.750	4.0	261.2202	24.00	-4.96	7810.820	1.0	46081.270	0.0
260.9560	76.00	-.19	5726.684	0.0	44047.320	0.0	261.2233	9.03	-1.28	550918.000	1.0	589188.000	2.0
260.9565	23.02	-3.54	102961.280	3.5	141270.400	3.5	261.2274	25.01	-3.69	66644.780	1.0	104914.180	0.0
260.9589	8.02	-1.28	329643.430	0.0	367952.200	1.0	261.2310	51.00	.22	18309.257	0.0	56589.553	0.0
260.9642	9.03	-1.26	551098.000	2.0	589406.000	3.0	261.2317	24.01	-.66	48399.190	1.5	86667.950	1.5
260.9652	24.01	-1.01	49006.150	1.5	87314.000	.5	261.2324	26.01	-3.38	45289.840	1.5	83558.500	.5
260.9686	26.02	-2.24	83161.480	4.0	121468.820	5.0	261.2349	30.02	-1.97	261829.800	5.0	300098.100	4.0
260.9744	28.01	-4.28	93528.440	3.5	131834.940	2.5	261.2363	24.02	-1.64	71166.100	2.0	109434.200	2.0
260.9791	23.01	-3.05	35193.130	5.0	73498.930	6.0	261.2380	41.00	-.39	2097.096	0.0	40376.366	0.0
260.9803	23.01	-2.63	14461.730	3.0	52767.360	3.0	261.2383	29.01	-4.35	110363.400	2.0	148631.200	3.0
260.9838	24.00	-2.23	27703.840	4.0	66008.950	3.0	261.2386	28.00	-3.47	2216.519	2.0	40484.282	2.0
260.9860	26.01	-1.32	25981.650	3.5	64286.440	3.5	261.2390	24.02	-1.79	71676.200	4.0	109943.900	5.0
260.9860	90.01	-.73	4032.876	0.0	42349.108	0.0	261.2417	22.00	-9.80	6556.828	1.0	44824.130	2.0
260.9862	28.01	-1.48	56424.490	1.5	94729.250	2.5	261.2484	27.01	-.27	46320.800	4.0	84587.120	4.0
260.9919	25.00	-2.05	24779.320	1.5	63083.240	1.5	261.2487	24.00	-2.30	7810.820	1.0	46077.090	1.0
260.9944	28.01	.21	53496.490	5.5	91800.050	4.5	261.2505	10.02	-1.16	353148.000	3.0	391414.020	2.0
260.9960	72.00	-1.07	4516.821	0.0	42831.584	0.0	261.2557	24.01	-1.47	31083.110	1.5	69348.360	1.5
260.9962	23.01	-3.08	30641.710	3.0	68945.000	3.0	261.2589	25.02	-3.00	94707.200	4.5	132971.990	3.5
260.9964	25.01	-2.50	67865.630	4.0	106168.900	5.0	261.2590	72.00	-1.16	5484.711	0.0	43760.904	0.0
260.9996	25.00	-2.73	25281.040	2.5	63583.840	1.5	261.2610	73.01	-.31	967.890	0.0	39243.790	0.0
261.0020	24.01	.15	49646.250	3.5	87948.700	4.5	261.2629	26.01	-2.92	45044.210	1.5	83308.400	2.5
261.0030	10.02	.37	353148.000	3.0	391450.310	4.0	261.2630	76.00	-.81	0.000	0.0	38275.607	0.0
261.0046	26.02	-4.20	144116.640	3.0	182418.700	4.0	261.2707	25.00	-2.60	25285.430	4.5	63548.490	4.5
261.0083	26.01	-2.63	23031.300	1.5	61332.820	1.5	261.2741	26.01	-2.56	31387.980	2.5	69650.540	2.5
261.0098	25.01	-3.28	53781.700	3.0	92083.000	3.0	261.2773	26.00	-2.53	415.932	3.0	38678.015	2.0
261.0105	22.00	-7.71	6556.828	1.0	44858.030	1.0	261.2798	22.00	-6.63	6661.003	3.0	44922.730	3.0
261.0109	9.02	-1.68	431967.930	.5	470269.070	.5	261.2856	25.00	-4.82	25285.430	4.5	63546.300	3.5
261.0130	73.00	-1.12	5968.656	0.0	44280.924	0.0	261.2864	25.00	-.98	25287.740	3.5	63548.490	4.5
261.0193	26.01	-3.03	25787.600	1.5	64087.500	2.5	261.2922	23.01	-3.52	8841.970	3.0	47101.880	2.0
261.0206	25.01	.70	27546.900	6.0	65846.610	7.0	261.2931	28.01	-3.96	77332.470	2.5	115592.250	1.5
261.0222	26.02	-4.19	162084.800	2.0	200384.280	3.0	261.2965	22.00	-8.00	6598.749	2.0	44858.030	1.0
261.0280	41.00	-.38	1532.493	0.0	39842.559	0.0	261.3009	25.01	-3.60	67910.260	4.0	106168.900	5.0
261.0284	25.01	-4.99	67865.630	4.0	106164.200	4.0	261.3014	25.00	-4.70	25287.740	3.5	63546.300	3.5
261.0285	10.01	-2.31	280797.260	2.5	319095.810	2.5	261.3024	26.02	-3.73	84369.920	2.0	122628.340	2.0
261.0293	24.00	-3.01	7810.820	1.0	46109.260	2.0	261.3045	25.01	-2.56	53781.700	3.0	92039.800	2.0
261.0304	27.01	-2.46	25317.720	1.0	63616.000	2.0	261.3045	27.02	-4.96	132277.100	3.5	170535.200	4.5
261.0305	10.01	-1.01	280797.260	2.5	319095.810	2.5	261.3045	27.02	-4.96	132277.100	3.5	170535.200	4.5
261.0319	22.00	-6.49	6742.757	4.0	45040.810	4.0	261.3047	24.01	-2.53	30219.040	4.5	68477.110	4.5
261.0327	27.00	-2.74	4690.180	2.5	42988.120	3.5	261.3060	76.00	.40	5081.424	0.0	43350.733	0.0
261.0329	23.03	-.34	254468.800	2.0	292766.700	2.0	261.3070	74.00	-.22	3306.958	0.0	41576.120	0.0
261.0340	57.01	.32	7339.834	0.0	45649.020	0.0	261.3080	42.00	.33	11372.710	0.0	49641.726	0.0
261.0346	25.01	-.47	43696.190	3.0	81993.850	4.0	261.3100	28.02	-2.80	97841.400	2.0	136098.700	1.0
261.0446	30.02	-4.88	261829.800	5.0	300126.000								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
261.3740	75.00	-2.26	15647.559	0.0	53906.911	0.0	261.6219	24.02	-4.89	71321.800	3.0	109533.500	4.0
261.3742	24.02	-1.39	71321.800	3.0	109569.700	2.0	261.6230	25.01	-3.46	64493.830	4.0	102705.370	3.0
261.3785	25.01	-1.35	151553.060	5.0	89800.340	4.0	261.6248	23.01	-1.55	14556.090	4.0	52767.360	3.0
261.3794	25.01	-2.68	67910.260	4.0	106157.400	3.0	261.6258	27.00	-1.27	8460.810	2.5	46671.940	2.5
261.3806	24.01	-3.88	48491.390	2.5	86738.360	3.5	261.6274	26.00	-4.57	21715.735	5.0	59926.620	5.0
261.3809	24.00	-4.19	7927.470	2.0	46174.400	3.0	261.6307	26.02	-2.55	105906.230	2.0	144116.640	3.0
261.3820	74.00	-5.77	2903.671	0.0	41161.853	0.0	261.6310	26.02	-4.35	141466.530	3.0	179676.890	2.0
261.3824	26.01	-5.30	862.630	1.5	39109.340	.5	261.6340	23.01	-6.19	8841.970	3.0	47051.890	3.0
261.3850	41.01	-1.41	403.288	0.0	38661.030	0.0	261.6342	23.01	-3.08	19132.690	2.0	57342.590	2.0
261.3860	24.01	-1.67	42986.730	1.5	81232.910	2.5	261.6369	25.01	-3.26	64493.830	4.0	102703.340	4.0
261.3890	27.00	-1.25	7442.410	3.5	45688.150	2.5	261.6442	9.02	-1.38	432060.640	1.5	470269.070	.5
261.3928	26.01	-7.75	36252.960	2.5	74498.150	1.5	261.6479	24.02	-4.40	71736.000	5.0	109943.900	5.0
261.3930	26.01	-4.43	65363.660	5.5	103608.820	4.5	261.6480	41.00	-1.15	20977.096	0.0	40316.383	0.0
261.3944	10.00	-4.44	134041.840	2.0	172286.800	2.0	261.6499	25.01	-3.40	27546.900	6.0	65754.500	6.0
261.3949	18.02	-7.81	186903.050	2.0	225147.930	2.0	261.6522	25.01	.37	51553.060	5.0	89760.330	5.0
261.4023	25.01	-1.36	43536.900	4.0	81780.700	3.0	261.6577	9.02	-4.53	426733.040	2.5	464939.500	2.5
261.4060	76.00	-5.54	10082.190	0.0	48336.859	0.0	261.6582	28.01	-4.44	98467.250	3.5	136673.640	4.5
261.4070	44.00	-5.93	1129.205	0.0	39383.728	0.0	261.6584	23.00	-3.99	323.420	3.5	38529.780	4.5
261.4092	25.00	-4.79	25281.040	2.5	63523.820	2.5	261.6588	9.02	-3.58	389525.550	1.5	427731.850	2.5
261.4102	24.01	-4.45	49351.960	2.5	87594.600	1.5	261.6610	72.00	-4.55	5565.369	0.0	43782.757	0.0
261.4117	26.00	-8.32	12560.933	3.0	50803.350	2.0	261.6634	26.01	-2.69	60887.660	5.5	99093.290	5.5
261.4124	27.00	-2.26	1406.840	2.5	39649.160	3.5	261.6658	23.01	-2.50	34745.720	3.0	72951.000	4.0
261.4160	23.03	-1.45	216905.000	1.0	255146.800	2.0	261.6720	75.01	.92	18712.545	0.0	56928.327	0.0
261.4161	25.01	-1.77	32836.400	1.0	71078.180	1.0	261.6722	24.00	-4.83	20523.940	5.0	58728.290	4.0
261.4180	82.00	.43	7743.122	0.0	45996.035	0.0	261.6780	42.00	.45	11050.080	0.0	49264.985	0.0
261.4186	26.01	-9.98	27314.930	3.5	65556.340	4.5	261.6812	18.01	-3.60	132327.280	3.5	170530.310	3.5
261.4258	10.00	-3.56	134041.840	2.0	172282.200	3.0	261.6868	26.02	-2.78	82494.880	1.0	120697.100	1.0
261.4277	23.02	-2.01	106903.350	5.5	145143.430	4.5	261.6965	17.02	.84	202367.600	3.5	240568.400	4.5
261.4290	72.01	.07	15163.614	0.0	53414.917	0.0	261.6984	25.02	-2.98	94771.470	2.5	132971.990	3.5
261.4301	23.01	-3.93	8640.210	2.0	46879.940	2.0	261.6994	24.01	-1.21	48491.390	2.5	86691.770	2.5
261.4344	27.01	-1.13	17771.500	3.0	56010.600	2.0	261.7000	70.01	-4.45	21293.585	0.0	59505.278	0.0
261.4399	23.01	-4.41	14461.730	3.0	52700.030	2.0	261.7070	23.01	-2.90	90977.810	4.0	47297.080	5.0
261.4419	24.03	-1.20	127202.000	4.5	165440.000	4.5	261.7080	23.01	-7.78	34946.550	4.0	73145.680	3.0
261.4442	26.02	-3.68	97041.380	3.0	135279.040	2.0	261.7126	20.02	-4.15	348051.860	4.0	386250.310	3.0
261.4460	30.02	-3.76	264632.400	3.0	302869.000	3.0	261.7130	30.02	-2.49	261909.700	4.0	300108.100	3.0
261.4467	29.01	-3.18	69704.800	4.0	107942.100	4.0	261.7132	26.02	-2.24	97041.380	3.0	135239.740	4.0
261.4495	26.00	-1.86	7728.058	3.0	45964.944	2.0	261.7147	26.02	-4.89	93512.640	4.0	131710.790	5.0
261.4497	10.02	-1.01	353177.160	2.0	391414.020	2.0	261.7163	20.02	-2.59	348051.860	4.0	386249.780	4.0
261.4500	76.00	-7.74	11292.053	0.0	49540.284	0.0	261.7168	22.00	-8.45	6842.964	5.0	45040.810	4.0
261.4505	25.00	-2.00	23549.200	2.5	61785.940	3.5	261.7180	76.00	-4.31	12905.203	0.0	51114.268	0.0
261.4541	24.00	-4.67	21847.880	2.0	60084.090	1.0	261.7199	25.01	-2.14	56883.380	1.0	95080.760	1.0
261.4560	75.00	-1.18	14518.354	0.0	52765.707	0.0	261.7232	27.01	-4.95	25147.200	4.0	63344.100	3.0
261.4580	26.01	-1.95	25805.320	4.5	64040.960	3.5	261.7238	20.02	-1.39	348051.860	4.0	386248.680	5.0
261.4590	44.00	-9.97	2661.698	0.0	40908.612	0.0	261.7258	20.02	-3.03	348051.860	4.0	386248.390	4.0
261.4614	23.02	-3.87	102961.280	3.5	141196.430	2.5	261.7259	23.01	-2.80	34592.720	2.0	72789.230	3.0
261.4622	28.01	-4.69	54557.050	4.5	92792.080	3.5	261.7261	18.02	-4.42	204727.470	1.0	242923.960	1.0
261.4626	24.00	-4.03	20519.600	6.0	58754.580	5.0	261.7292	27.01	-2.19	48150.700	3.0	86346.730	3.0
261.4724	12.00	-2.87	21870.464	1.0	60104.000	1.0	261.7301	29.01	-4.80	110363.400	2.0	148559.300	2.0
261.4727	25.02	-3.53	100001.300	2.5	138234.790	1.5	261.7309	23.01	-2.96	14461.730	3.0	52675.510	4.0
261.4776	26.00	-3.56	12968.552	2.0	51201.330	2.0	261.7334	28.01	-1.24	99340.550	3.5	137535.960	3.5
261.4813	25.01	-3.54	64473.130	3.0	102705.370	3.0	261.7366	26.02	-4.33	141466.530	3.0	176661.480	3.0
261.4840	24.01	-3.26	36272.660	4.5	74504.510	4.5	261.7380	9.02	-1.08	351330.800	1.5	389525.550	1.5
261.4867	26.01	-1.40	22810.330	3.5	61041.780	2.5	261.7390	30.02	-4.48	264632.400	3.0	302827.000	2.0
261.4895	26.01	-1.89	26055.400	2.5	64286.440	3.5	261.7440	75.00	-4.32	16534.792	0.0	54740.061	0.0
261.4905	24.00	-4.88	20523.690	4.0	58754.580	5.0	261.7453	25.01	-1.20	31022.050	0.0	69215.730	1.0
261.4913	24.01	-1.09	31117.590	2.5	69348.360	1.5	261.7463	25.01	-1.14	44745.460	2.0	82939.000	1.0
261.4952	25.01	-2.32	64473.130	3.0	102703.340	4.0	261.7508	24.01	-2.13	39742.360	2.5	77935.240	2.5
261.4980	77.00	-1.43	0.000	0.0	38241.210	0.0	261.7512	12.00	-2.65	21911.178	2.0	60104.000	1.0
261.5007	22.01	-3.61	9395.760	1.5	47625.170	2.5	261.7542	20.00	-3.82	0.000	0.0	38192.392	1.0
261.5049	28.01	.12	55299.650	4.5	93528.440	3.5	261.7561	25.00	-4.54	25265.740	5.5	63457.850	5.5
261.5055	24.01	-2.66	32355.940	3.5	70584.640	2.5	261.7568	8.03	-4.97	596331.000	3.5	634523.000	2.5
261.5069	26.01	-2.92	45079.910	2.5	83308.400	2.5	261.7597	18.01	-2.31	172335.520	2.5	210527.100	2.5
261.5090	44.00	.02	8469.040	0.0	46708.642	0.0	261.7615	26.01	-4.48	667.640	2.5	38858.960	2.5
261.5120	74.00	-4.49	6129.972	0.0	44369.135	0.0	261.7615	18.01	-3.59	157673.320	2.5	195864.640	2.5
261.5173	26.02	-2.16	84671.870	3.0	122898.840	2.0	261.7635	25.01	-1.37	44521.520	4.0	82712.550	3.0
261.5201	10.00	-3.91	134041.840	2.0	172268.400	1.0	261.7637	9.03	-8.81	550918.000	1.0	589109.000	1.0
261.5250	73.00	-3.39	9598.245	0.0	47835.507	0.0	261.7641	25.01	-1.11	43131.400	2.0	81322.330	1.0
261.5260	70.01	-9.98	30085.255	0.0	68322.371	0.0	261.7662	28.01	-2.63	99340.550	3.5	137531.180	4.5
261.5282	22.00	-7.01	6598.749	2.0	44824.130	2.0	261.7668	25.01	-3.06	44745.460	2.0	82936.010	3.0
261.5303	26.01	-3.74	44753.820	3.5	82978.900	4.5	261.7740	27.00	-3.67	15184.040	2.5	53373.530	3.5
261.5334	27.00	-2.64	8460.810	2.5	46685.430	1.5	261.7747	17.01	-3.01	146469.000	3.0	184658.400	2.0
261.5390	42.00	-0.06	10888.765	0.0	49123.980	0.0	261.7780	77.00	-4.73	4032.876	0.0	42233.183	0.0
261.5403	25.01	-1.88	52373.180	3.0	90596.800	2.0	261.7790	44.00	-4.01	9517.587	0.0	47717.748	0.0
261.5411	23.01	.09	35193.130	5.0	73416.630	5.0	261.7795	9.02	-4.59	426733.040	2.5	464921.740	3.5
261.5417	23.03	-2.36	226796.300	2.0	265019.700	1.0	261.7796	25.00	-3.75	23296.670	3.5	61485.340	4.5
261.5420	71.01	-2.22	0.000	0.0	38234.777	0.0	261.7815	30.02	-1.69	261909.700	4.0	300098.100	4.0
261.5440	74.01	.90	15082.956	0.0	53317.440	0.0	261.7860	27.00	-1.66	5075.830	1.5	43263.570	1.5
261.5460	73.00	.31	9598.245	0.0	47832.437	0.0	261.7877	23.00	-6.62	2112.320	.5	40299.810	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
261.8529	8.03	-1.26	596444.000	2.5	634622.000	1.5	262.1470	26.00	-3.23	19562.435	4.0	57697.590	4.0
261.8627	24.01	-0.37	48491.390	2.5	86667.950	1.5	262.1476	16.02	-1.69	173191.730	2.0	211326.800	1.0
261.8638	23.01	-2.99	19166.190	1.0	57342.590	2.0	262.1524	10.01	-3.04	280700.770	3.5	318835.140	2.5
261.8665	30.02	-0.33	264632.400	3.0	302808.400	4.0	262.1549	10.01	-1.65	280700.770	3.5	318834.780	3.5
261.8698	26.01	-3.59	61512.670	4.5	99688.200	3.5	262.1618	28.02	-3.60	76237.800	3.0	114370.800	2.0
261.8711	26.00	-2.55	0.000	4.0	38175.332	3.0	262.1653	13.01	-4.27	95546.800	3.0	133679.300	3.0
261.8730	26.01	-0.89	61156.900	3.5	99331.950	4.5	262.1666	26.01	-0.91	977.030	.5	39109.340	.5
261.8764	25.00	-3.36	23296.670	3.5	61471.230	2.5	262.1680	17.02	-4.46	179781.000	.5	217913.100	1.5
261.8781	17.02	-1.14	201332.000	1.5	239506.300	1.5	262.1691	26.02	-4.31	98661.880	1.0	136793.820	2.0
261.8810	74.00	-0.93	3306.958	0.0	41492.241	0.0	262.1715	30.02	-0.84	261921.600	2.0	300053.200	2.0
261.8850	30.02	-2.30	261909.700	4.0	300083.000	3.0	262.1720	28.01	-2.99	76727.360	5.5	114858.880	5.5
261.8876	26.00	-0.86	21999.132	4.0	60172.060	4.0	262.1729	25.01	-1.79	48317.850	4.0	86449.240	4.0
261.8900	90.01	-0.39	4113.534	0.0	42297.504	0.0	262.1775	13.01	-3.37	95547.900	2.0	133679.300	3.0
261.8901	23.00	-7.88	2153.200	1.5	40325.770	2.5	262.1779	9.02	-4.00	387259.280	1.5	425390.010	.5
261.8911	25.00	-0.40	25285.430	4.5	63457.850	5.5	262.1799	25.01	-1.88	64549.720	6.0	102580.090	5.0
261.8912	27.01	-0.84	24267.800	1.0	62440.200	1.0	262.1820	76.00	-0.77	0.000	0.0	38141.444	0.0
261.8918	25.01	-0.03	44745.460	2.0	82917.780	2.0	262.1881	18.01	-4.85	172335.520	2.5	210464.710	2.5
261.8998	25.01	.04	44899.820	3.0	83070.970	2.0	262.1936	27.01	-0.31	47039.000	3.0	85167.380	3.0
261.9071	26.01	-0.48	22637.190	4.5	60807.280	4.5	262.1997	25.02	-3.06	100001.300	2.5	138128.800	1.5
261.9087	26.01	-3.45	45289.840	1.5	83459.700	1.5	262.2000	41.00	-0.32	8711.012	0.0	46849.837	0.0
261.9108	26.01	-0.91	62322.500	3.5	100492.040	3.5	262.2037	24.01	-0.92	31351.150	2.5	69478.060	2.5
261.9180	74.00	.36	15002.299	0.0	53182.187	0.0	262.2039	25.01	-3.82	66893.790	1.0	105020.670	1.0
261.9200	28.01	-4.61	98122.630	.5	136290.830	.5	262.2054	27.00	-1.41	4142.660	3.5	42269.320	4.5
261.9223	29.01	-2.32	85388.770	2.0	123556.640	2.0	262.2059	28.01	-4.17	68156.570	1.5	106283.160	2.5
261.9255	24.02	-1.88	70291.800	2.0	108459.200	2.0	262.2066	25.00	-2.47	24779.320	1.5	62905.810	2.5
261.9260	71.01	.13	11695.340	0.0	49874.062	0.0	262.2081	25.02	-4.36	94771.470	2.5	132897.740	2.5
261.9275	27.00	-3.13	5075.830	1.5	43242.950	2.5	262.2085	25.01	-1.92	66929.220	2.0	105055.430	2.0
261.9307	25.01	.08	43696.190	3.0	81862.840	4.0	262.2097	24.00	-4.72	7593.160	2.0	45719.200	1.0
261.9326	26.01	-3.70	60402.380	2.5	98568.750	3.5	262.2196	30.02	-1.19	264783.900	4.0	302908.500	4.0
261.9340	42.01	-0.10	11695.340	0.0	49872.896	0.0	262.2199	23.01	-3.73	30673.140	2.0	68797.700	2.0
261.9372	24.02	-2.30	70980.200	1.0	109145.900	0.0	262.2210	69.01	-1.55	161.315	0.0	38297.086	0.0
261.9386	25.03	-1.71	138123.100	6.0	176288.600	5.0	262.2210	74.00	.64	15002.299	0.0	53138.070	0.0
261.9404	25.02	-3.95	134286.000	.5	172451.230	1.5	262.2226	25.02	-2.27	138340.620	2.5	176464.780	3.5
261.9506	28.01	-3.90	100332.090	4.5	138495.840	4.5	262.2250	27.00	-1.72	5075.830	1.5	43199.650	2.5
261.9508	24.00	-4.92	23512.000	1.0	61675.720	2.0	262.2272	8.02	-2.12	332777.100	1.0	370900.600	2.0
261.9509	25.00	-0.09	25285.430	4.5	63449.130	5.5	262.2276	26.01	-3.63	31483.200	3.5	69606.640	3.5
261.9548	24.01	.24	49351.960	2.5	87515.100	3.5	262.2296	25.00	-3.96	17282.000	3.5	55405.140	2.5
261.9549	22.00	-7.74	6661.003	3.0	44824.130	2.0	262.2301	22.00	-4.10	8602.340	2.0	46725.420	3.0
261.9555	24.01	-0.77	48491.390	2.5	86654.430	2.5	262.2334	25.01	.05	45336.900	4.0	81559.500	3.0
261.9565	24.01	.66	49838.430	4.5	88001.320	5.5	262.2426	27.00	-1.52	4690.180	2.5	42811.440	3.5
261.9570	78.00	-0.96	6533.259	0.0	44707.463	0.0	262.2506	27.01	-4.52	27484.300	3.0	65604.400	3.0
261.9594	23.00	-0.56	2424.890	4.5	40587.350	3.5	262.2545	25.01	-2.94	66901.140	2.0	105020.670	1.0
261.9595	23.01	-0.37	34745.720	3.0	72908.170	3.0	262.2580	45.00	-0.46	5565.369	0.0	43695.760	0.0
261.9641	25.00	-0.55	23549.200	2.5	61710.980	3.5	262.2667	25.00	-1.32	24788.050	2.5	62905.810	2.5
261.9651	25.01	-0.96	66893.790	1.0	105055.430	2.0	262.2733	30.02	-2.31	261936.400	1.0	300053.200	2.0
261.9653	13.01	-2.58	110087.500	2.0	148249.100	2.0	262.2739	25.01	-1.54	43696.190	3.0	81812.900	2.0
261.9659	25.01	-3.42	64518.570	5.0	102680.090	5.0	262.2740	72.01	-0.28	3629.588	0.0	41757.653	0.0
261.9667	30.02	-0.88	261921.600	2.0	300083.000	3.0	262.2775	25.01	-1.08	48333.060	5.0	86449.240	4.0
261.9670	44.00	.04	9114.300	0.0	47287.047	0.0	262.2834	26.00	-1.03	22249.430	3.0	60364.760	3.0
261.9783	22.00	-3.07	0.000	2.0	38159.710	3.0	262.2850	25.01	-2.76	49465.130	3.0	87580.230	4.0
261.9798	27.01	-0.77	25147.200	4.0	63306.700	5.0	262.2864	24.00	-3.00	8307.570	4.0	46422.460	4.0
261.9811	17.01	-2.63	147605.700	3.0	185765.000	2.0	262.2897	25.00	.41	25281.040	2.5	63395.450	3.5
261.9820	25.00	-0.53	25285.430	4.5	63444.610	4.5	262.2899	23.01	-5.26	8640.210	2.0	46754.590	1.0
261.9825	17.01	-0.35	146469.000	3.0	184628.100	4.0	262.2917	10.00	-4.44	134459.287	1.0	172573.400	2.0
261.9839	26.00	-3.34	8154.713	1.0	46313.610	2.0	262.2970	25.01	-1.76	49882.150	4.0	87995.500	5.0
261.9845	17.02	-0.78	216524.600	2.5	254683.400	2.5	262.2973	23.03	-3.61	217350.000	3.0	255463.300	2.0
261.9850	26.02	-4.95	151637.300	1.0	189796.030	1.0	262.2990	23.00	-7.63	2112.320	.5	40225.380	1.5
261.9880	77.00	-1.43	0.000	0.0	38169.687	0.0	262.3020	24.01	.26	49646.250	3.5	87758.880	3.5
261.9900	28.01	-4.80	94067.140	1.5	132225.150	1.5	262.3035	24.02	-1.27	71321.800	3.0	109434.200	2.0
261.9935	22.00	-1.30	386.874	4.0	38544.380	3.0	262.3063	10.01	-1.79	280700.770	3.5	318812.770	3.5
261.9940	76.00	-0.08	4113.534	0.0	42282.347	0.0	262.3068	28.01	-2.26	32523.540	3.5	70635.460	2.5
261.9978	18.03	-0.85	268151.380	2.5	306308.250	1.5	262.3080	25.01	-3.47	33278.390	3.0	71390.140	3.0
261.9978	25.00	.44	25287.740	3.5	63444.610	4.5	262.3098	18.01	-4.61	172335.520	2.5	210447.010	3.5
261.9982	26.02	-2.16	105929.160	3.0	144085.970	4.0	262.3104	25.01	-1.89	27546.900	6.0	65658.300	5.0
262.0030	75.00	-0.18	14115.066	0.0	52282.568	0.0	262.3107	10.01	-4.47	280700.770	3.5	318812.120	4.5
262.0039	23.01	-3.20	30641.710	3.0	68797.700	2.0	262.3128	26.01	-0.89	32875.630	6.5	70986.690	6.5
262.0063	24.00	-6.53	7810.820	1.0	45966.450	2.0	262.3144	28.01	-4.85	54262.630	3.5	92373.450	2.5
262.0090	24.01	-2.76	53271.070	2.5	91426.310	2.5	262.3159	28.01	-1.56	55417.830	3.5	93528.440	3.5
262.0106	24.01	-1.59	31351.150	2.5	69506.160	3.5	262.3182	24.01	.33	49838.430	4.5	87948.700	4.5
262.0127	28.01	-4.05	92325.850	3.5	130480.550	3.5	262.3199	25.00	-2.07	25285.430	4.5	63395.450	3.5
262.0141	30.02	-1.83	261921.600	2.0	300076.100	2.0	262.3228	8.03	-1.54	596512.400	1.5	634622.000	1.5
262.0155	25.01	-2.87	66901.140	2.0	105055.430	2.0	262.3280	75.00	-0.62	11695.340	0.0	49815.556	0.0
262.0169	26.01	-1.88	22939.350	2.5	61093.440	2.5	262.3284	25.00	-3.21	25265.740	5.5	63374.530	4.5
262.0230	74.00	-0.57	2903.671	0.0	41068.260	0.0	262.3313	23.00	-2.77	137.380	2.5	38245.750	3.5
262.0250	25.01	-1.68	49427.320	4.0	87580.230	4.0	262.3320	72.00	-0.54	8872.327	0.0	46991.962	0.0
262.0252	26.01	-0.32	54063.530	.5	92216.420	1.5	262.3323	6.00	-2.93	81769.790	2.0	119878.000	1.0
262.0307	25.02	-4.97	138312.700	4.5	176464.780	3.5	262.3354	26.02	-2.50	68847.110	2.0	124954.880	1.0
262.0333	23.03	-0.93	218100.000	4.0	256251.700	4.0	262.3358	25.00	-0.72	25287.740	3.5	63395.450	3.5
262.0340													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
262.3905	23.01	-4.12	8640.210	2.0	46739.980	2.0	262.6695	26.01	-1.08	25981.650	3.5	64040.960	3.5
262.4013	23.03	-1.96	225804.100	2.0	263902.300	3.0	262.6716	9.03	.05	538397.200	2.0	576456.200	3.0
262.4030	26.01	-2.71	61726.090	3.5	99824.040	2.5	262.6721	25.01	-2.95	49882.150	4.0	87941.080	4.0
262.4041	25.00	.67	25265.740	5.5	63363.540	6.5	262.6721	27.01	-4.45	47537.100	2.0	85596.030	2.0
262.4083	9.02	-4.38	406908.950	1.5	445006.130	2.5	262.6760	17.00	-3.32	12421.258	0.0	50490.971	0.0
262.4120	73.00	-4.44	5968.656	0.0	44076.669	0.0	262.6778	28.02	-4.75	75646.900	4.0	113705.000	4.0
262.4199	23.03	-1.09	217350.000	3.0	255445.500	3.0	262.6788	24.01	-2.01	39877.280	3.5	77935.240	2.5
262.4254	23.00	-7.31	2220.130	2.5	40314.830	3.5	262.6791	23.00	-5.00	553.020	4.5	38610.940	3.5
262.4340	69.01	-1.61	0.000	0.0	38104.819	0.0	262.6853	26.02	-3.67	148655.000	0.0	186712.020	1.0
262.4364	28.01	-2.28	99442.860	4.5	137535.960	3.5	262.6857	26.00	-3.49	19757.020	3.0	57813.970	3.0
262.4373	28.01	-1.57	99442.860	4.5	137535.960	3.5	262.6867	26.02	-2.97	86847.110	2.0	124903.920	2.0
262.4478	25.01	-2.38	66929.220	2.0	105020.670	1.0	262.6882	26.01	-3.52	45079.910	2.5	83136.500	3.5
262.4570	76.00	-1.05	16131.504	0.0	54232.983	0.0	262.6885	28.01	-1.60	70706.770	1.5	108763.320	.5
262.4578	9.03	-1.67	551098.000	2.0	589188.000	2.0	262.6931	24.01	-3.89	35356.060	1.5	73411.940	1.5
262.4591	18.01	-1.67	161048.640	1.5	199138.450	1.5	262.6937	8.03	-2.34	596566.200	.5	634622.000	1.5
262.4624	23.01	-1.82	34592.720	2.0	72682.060	2.0	262.6950	72.01	-1.75	6291.287	0.0	44358.247	0.0
262.4635	25.01	-1.79	43131.400	2.0	81220.580	3.0	262.6960	26.02	-2.35	97041.380	3.0	135096.840	3.0
262.4640	25.00	-3.54	25285.430	4.5	63374.530	4.5	262.6976	25.00	-4.89	17052.290	4.5	55107.520	3.5
262.4693	25.00	-4.80	18402.460	2.5	56490.790	2.5	262.7033	27.00	-2.45	5075.830	1.5	43130.240	.5
262.4694	28.01	-1.75	99442.860	4.5	137531.180	4.5	262.7056	25.01	-4.45	44138.960	1.0	82193.040	2.0
262.4709	17.02	-1.74	216524.600	2.5	254612.700	1.5	262.7092	28.01	-4.81	94067.140	1.5	132120.700	.5
262.4732	15.01	-1.56	65252.250	1.0	103340.010	2.0	262.7124	26.00	-2.42	12560.933	3.0	50614.020	4.0
262.4761	25.01	-1.65	27570.950	5.0	65658.300	5.0	262.7148	9.02	-4.81	406904.380	.5	444957.110	1.5
262.4778	30.02	-1.29	591921.600	2.0	300008.700	1.0	262.7159	26.02	-3.42	93392.450	3.0	131445.030	2.0
262.4799	8.03	-1.64	266566.200	.5	634653.000	.5	262.7160	24.01	-1.82	67369.330	5.0	105421.900	5.5
262.4820	26.02	-3.23	144332.210	4.0	182418.700	4.0	262.7166	26.01	-2.36	65556.340	4.5	103608.820	4.5
262.4820	31.00	-2.05	806.575	0.0	38904.426	0.0	262.7171	24.01	-1.68	49706.470	2.5	87758.800	3.5
262.4825	22.01	-1.85	29734.450	3.5	67820.870	4.5	262.7207	26.01	-2.70	65931.460	3.5	103983.350	3.5
262.4826	25.02	-2.71	98450.660	1.5	132937.060	.5	262.7225	26.00	-2.90	7376.762	4.0	45428.385	4.0
262.4836	23.01	-3.48	30673.140	2.0	68759.400	1.0	262.7253	25.01	-1.95	49889.860	3.0	87941.080	4.0
262.4861	30.02	-2.41	264783.900	4.0	302869.800	3.0	262.7295	24.01	-4.06	35356.060	1.5	73406.680	.5
262.4868	23.01	-1.58	35193.130	5.0	73278.920	4.0	262.7322	23.01	-3.43	8640.210	2.0	46690.430	1.0
262.4870	24.01	-2.45	34631.140	4.5	72716.910	4.5	262.7394	27.01	-3.11	25317.720	1.0	63366.900	2.0
262.4930	18.03	.29	268151.380	2.5	306236.280	2.5	262.7394	18.01	-4.56	132481.140	2.5	170530.310	3.5
262.4956	25.01	-1.66	43696.190	3.0	81780.700	3.0	262.7396	18.01	-2.59	161089.310	.5	199138.450	1.5
262.5007	25.01	-1.70	44521.520	4.0	82605.290	4.0	262.7398	24.01	-1.58	49493.000	.5	87542.120	.5
262.5012	9.02	.49	376814.020	2.5	414897.720	3.5	262.7416	18.02	-1.35	243424.970	3.0	281473.820	3.0
262.5036	23.01	-2.84	9097.810	4.0	47181.700	4.0	262.7440	41.00	-1.09	2742.356	0.0	40802.217	0.0
262.5040	75.00	-1.94	11534.025	0.0	49628.683	0.0	262.7539	25.02	-4.03	94850.660	1.5	132897.740	2.5
262.5041	25.01	-1.25	32856.950	3.0	70940.240	2.0	262.7550	42.00	.34	11050.080	0.0	49108.347	0.0
262.5074	9.03	-1.18	538261.300	1.0	576344.100	2.0	262.7579	25.01	-3.08	67008.930	3.0	105055.430	2.0
262.5118	25.00	-1.29	25265.740	5.5	63347.910	4.5	262.7634	27.00	-1.33	3482.820	4.5	41528.530	5.5
262.5155	9.02	-3.87	427459.370	.5	465541.000	.5	262.7650	44.00	-1.40	7420.492	0.0	45477.311	0.0
262.5155	9.02	-3.32	427459.370	.5	465541.000	1.5	262.7669	23.02	-2.52	56669.050	1.5	94714.250	.5
262.5160	23.01	-2.14	34592.720	2.0	72674.280	2.0	262.7675	13.01	-2.71	110087.500	2.0	148132.600	3.0
262.5171	25.01	-1.11	32858.840	2.0	70940.240	2.0	262.7699	25.01	-3.33	33278.390	3.0	71323.150	2.0
262.5192	26.01	-1.12	46967.470	2.5	85048.560	1.5	262.7731	17.01	-3.57	131754.800	1.0	169799.100	2.0
262.5220	74.00	-1.35	4758.794	0.0	42850.840	0.0	262.7765	26.02	-3.35	109570.840	2.0	147614.650	2.0
262.5223	28.01	-2.42	99442.860	4.5	137523.510	3.5	262.7779	25.02	-2.22	100085.200	1.5	138128.800	1.5
262.5237	26.02	-3.54	144332.210	4.0	182412.650	4.0	262.7786	23.01	-1.09	34745.720	3.0	72789.230	3.0
262.5253	24.01	-4.28	33356.060	1.5	73436.270	2.5	262.7793	17.02	-4.17	205037.300	1.5	243080.700	1.5
262.5254	26.02	-1.69	83161.480	4.0	121241.670	4.0	262.7848	24.00	-2.71	23933.900	4.0	61976.500	4.0
262.5276	28.01	-4.55	98467.250	3.5	136547.130	3.5	262.7910	83.00	.09	11292.053	0.0	49345.107	0.0
262.5319	28.01	-3.64	98467.250	3.5	136546.500	4.5	262.7931	24.01	.39	49646.250	3.5	87687.660	4.5
262.5320	77.00	-1.49	7017.204	0.0	45107.799	0.0	262.8028	9.03	-1.36	591366.000	3.0	589406.000	3.0
262.5323	24.00	-2.05	8095.210	3.0	46174.400	3.0	262.8030	78.00	-1.33	725.918	0.0	38777.234	0.0
262.5336	8.03	-1.60	596444.000	2.5	634523.000	2.5	262.8099	24.00	-4.02	7927.470	2.0	45966.450	2.0
262.5378	27.02	-4.61	132277.100	3.5	170355.500	2.5	262.8111	23.03	-1.35	217108.000	2.0	255146.800	2.0
262.5460	73.00	-1.74	5968.656	0.0	44057.220	0.0	262.8130	24.01	-2.63	32355.940	3.5	70394.460	4.5
262.5487	26.01	.62	32909.870	5.5	70986.970	6.5	262.8142	25.01	-1.55	49820.160	2.0	87858.510	2.0
262.5495	26.02	-4.33	144332.210	4.0	182408.910	3.0	262.8168	23.01	-3.26	8841.970	3.0	46879.940	2.0
262.5573	23.02	-3.55	49805.290	3.5	87860.850	2.5	262.8174	10.01	-1.74	280797.260	2.5	318835.140	2.5
262.5585	24.02	-1.92	71868.500	6.0	109943.900	5.0	262.8199	10.01	-1.88	280797.260	2.5	318834.780	3.5
262.5598	17.01	-2.65	121499.000	2.0	159574.200	2.0	262.8200	77.00	-1.41	15970.189	0.0	54019.044	0.0
262.5610	28.01	-4.49	98467.250	3.5	136542.280	3.5	262.8235	18.02	-1.89	243424.970	3.0	281461.970	2.0
262.5612	25.01	.55	27583.300	4.0	65658.300	5.0	262.8250	74.00	-1.03	1613.150	0.0	39661.281	0.0
262.5633	25.02	-3.02	100054.100	.5	138128.800	1.5	262.8256	25.03	-3.78	131462.500	5.0	169499.200	5.0
262.5666	26.01	-1.43	384.770	3.5	38458.990	4.5	262.8280	82.00	-1.76	10566.135	0.0	48613.832	0.0
262.5670	77.00	-1.68	16454.134	0.0	54539.551	0.0	262.8287	26.01	-1.41	977.030	.5	39013.280	1.5
262.5681	9.03	-1.48	538195.000	0.0	576269.000	1.0	262.8291	25.01	.12	44899.820	3.0	82936.010	3.0
262.5740	90.01	-1.32	4113.534	0.0	42198.036	0.0	262.8322	10.01	-1.87	280768.520	.5	318804.260	1.5
262.5758	24.00	-3.55	7927.470	2.0	46000.360	3.0	262.8342	25.02	-2.19	138234.790	1.5	176270.250	2.5
262.5798	30.02	-1.76	261936.400	1.0	300008.700	1.0	262.8480	76.00	.16	8630.355	0.0	46675.157	0.0
262.5805	27.01	-3.55	27585.300	1.0	65657.500	1.0	262.8490	41.00	-1.24	1532.493	0.0	39577.150	0.0
262.5807	23.00	-8.07	2153.200	1.5	40225.380	1.5	262.8505	25.01	.22	65567.070	2.0	103600.170	2.0
262.5867	24.02	-1.98	71166.100	2.0	109237.400	1.0	262.8574	26.02	-1.79	93412.930	2.0	131445.030	2.0
262.5869	24.01	-2.27	32355.940	3.5	70427.220	3.5	262.8574	26.01	-1.78	26055.400	2.5	64087.500	2.5
262.5880	45.00	-1.29	5565.369	0.0	43647.840	0.0	262.8584	15.01	-1.62	65308.050	3.0	103340.010	2.0
262.5884													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
262.9345	25.01	-1.05	29889.310	3.0	67910.260	4.0	263.1968	10.01	-1.17	280173.010	4.5	318156.060	4.5
262.9383	30.02	-1.23	264783.900	4.0	302804.300	5.0	263.2015	25.01	-1.67	27583.300	4.0	65565.680	4.0
262.9384	25.01	-3.50	66893.790	1.0	104914.180	0.0	263.2040	28.01	-2.09	91800.050	4.5	129782.070	3.5
262.9406	25.01	-3.32	70150.390	1.0	108170.450	2.0	263.2077	24.00	-1.58	24056.110	5.0	62037.600	5.0
262.9409	28.01	-4.04	100475.820	3.5	138495.840	4.5	263.2107	28.01	-3.62	98561.220	2.5	136542.280	3.5
262.9410	77.00	-1.68	12985.861	0.0	51017.206	0.0	263.2109	28.01	-3.45	67880.160	2.5	105861.190	2.5
262.9427	9.02	-1.62	389525.550	1.5	427545.310	1.5	263.2117	24.01	-1.47	32603.730	2.5	70584.640	2.5
262.9428	24.01	-1.24	49646.250	3.5	87666.000	2.5	263.2130	44.00	-1.13	10566.135	0.0	48558.179	0.0
262.9504	9.02	-1.79	376879.070	3.5	414897.720	3.5	263.2238	26.00	-1.01	7985.783	2.0	45964.944	2.0
262.9510	26.01	-3.76	45289.840	1.5	83308.400	2.5	263.2242	27.01	-1.33	18031.500	2.0	56010.600	2.0
262.9552	25.01	-1.69	44899.820	3.0	82917.780	2.0	263.2251	26.02	-2.14	144501.740	2.0	182480.720	2.0
262.9573	24.01	-1.75	34631.140	4.5	72648.790	3.5	263.2256	24.01	-1.53	30864.610	2.5	68843.510	3.5
262.9574	26.00	-2.67	978.076	0.0	38995.717	1.0	263.2261	28.01	-1.59	68154.310	1.5	106133.140	1.5
262.9586	26.01	-1.13	22939.350	2.5	60956.620	3.5	263.2300	23.00	-2.78	137.380	2.5	30115.650	3.5
262.9670	25.01	-2.83	43131.400	2.0	81147.650	2.0	263.2307	27.00	-4.46	14036.280	1.5	52014.450	1.5
262.9700	9.02	.61	37679.070	3.5	414894.890	4.5	263.2357	25.01	.46	27588.230	3.0	65565.680	4.0
262.9719	23.01	.49	35483.390	6.0	73498.390	6.0	263.2366	24.01	-1.74	49564.800	1.5	87542.120	.5
262.9721	10.01	-2.06	280797.260	2.5	318812.770	3.5	263.2401	18.02	-1.26	187171.120	1.0	225147.930	2.0
262.9729	24.01	-2.27	32836.840	3.5	70852.240	3.5	263.2403	22.00	-1.20	0.000	2.0	37976.780	2.0
262.9733	24.00	-2.06	23512.000	1.0	61527.340	1.0	263.2405	23.00	-3.22	553.020	4.5	38529.780	4.5
262.9741	26.01	-6.86	23317.600	2.5	61332.820	1.5	263.2409	26.02	-3.67	84369.920	2.0	122346.610	3.0
262.9783	28.01	-1.68	70748.700	.5	108763.320	.5	263.2414	28.01	-1.74	99559.330	2.5	137535.960	3.5
262.9798	23.00	-7.03	2311.370	3.5	40325.770	2.5	263.2435	25.01	-2.29	29889.310	3.0	67865.630	4.0
262.9822	24.00	-3.72	8095.210	3.0	46109.260	2.0	263.2490	74.00	.45	12098.628	0.0	50085.477	0.0
262.9850	42.00	.50	11372.710	0.0	49397.692	0.0	263.2500	44.00	-1.32	8711.012	0.0	46697.717	0.0
262.9884	10.01	-2.03	280173.010	4.5	318186.170	4.5	263.2520	41.01	.39	8227.067	0.0	46213.463	0.0
262.9886	10.01	-1.30	280173.010	4.5	318186.140	5.5	263.2595	26.00	-2.22	704.003	2.0	38678.015	2.0
262.9918	24.01	-2.31	36101.820	3.5	74114.480	3.5	263.2660	24.01	-1.51	67448.820	4.5	105421.900	5.5
262.9968	27.00	-1.17	15184.040	2.5	53195.980	2.5	263.2665	17.02	-1.75	216710.400	3.5	254683.400	2.5
262.9992	24.01	-1.21	67353.600	4.5	105365.200	4.5	263.2675	24.00	-7.24	7593.160	2.0	45566.020	3.0
262.9993	21.00	-4.42	168.340	2.5	38179.920	1.5	263.2675	10.02	-1.81	398986.640	2.0	436959.490	1.0
263.0001	29.00	-1.05	39038.240	0.0	77061.039	0.0	263.2700	74.00	-1.59	2903.671	0.0	40887.490	0.0
263.0010	25.01	-2.34	43311.000	1.0	81322.330	1.0	263.2719	28.01	-1.28	55417.830	3.5	93390.060	2.5
263.0033	9.03	-1.23	551098.000	2.0	589109.000	1.0	263.2776	24.01	-1.47	67393.800	3.5	105365.200	4.5
263.0052	12.00	-2.13	21870.464	1.0	59881.196	1.0	263.2783	24.01	-1.89	39742.360	2.5	77713.660	1.5
263.0053	12.00	-1.82	21870.464	1.0	59881.181	2.0	263.2827	26.01	-3.82	46967.470	2.5	84938.130	1.5
263.0061	8.03	-2.54	596512.400	1.5	634523.000	2.5	263.2837	26.01	-2.72	66012.830	4.5	103983.350	3.5
263.0069	26.01	-1.17	23031.300	1.5	61041.780	2.5	263.2872	12.00	-3.30	21911.178	2.0	59881.196	1.0
263.0198	22.01	-1.63	30836.520	1.5	68845.140	2.5	263.2873	12.00	-2.30	21911.178	2.0	59881.181	2.0
263.0207	25.01	-2.77	38366.070	2.0	76374.560	2.0	263.2874	12.00	-1.38	21911.178	2.0	59881.168	3.0
263.0245	25.00	-1.67	23719.520	1.5	61727.460	2.5	263.2890	76.00	-1.02	12905.203	0.0	50886.281	0.0
263.0252	10.01	-2.11	280797.260	2.5	318805.100	2.5	263.2896	27.00	-2.45	16195.680	.5	54165.350	1.5
263.0259	25.00	-1.83	25281.040	2.5	63288.780	3.5	263.2967	25.01	-1.82	49889.860	3.0	87858.510	2.0
263.0262	9.03	-1.49	538261.300	1.0	576269.000	1.0	263.2983	24.00	-3.29	7750.780	0.0	45719.200	1.0
263.0278	28.01	-2.00	13550.390	3.5	51557.850	3.5	263.2984	26.00	-1.85	22838.320	2.0	60806.720	3.0
263.0310	10.01	-2.87	280797.260	2.5	318804.260	1.5	263.3010	75.00	-1.67	15647.559	0.0	53626.906	0.0
263.0324	9.03	.25	538597.800	3.0	576604.600	4.0	263.3030	22.01	-1.65	31113.610	3.5	69081.350	4.5
263.0371	9.02	-3.08	351519.420	2.5	389525.550	1.5	263.3054	28.01	-1.67	99559.330	2.5	137526.730	2.5
263.0420	45.00	-1.02	2581.041	0.0	40597.784	0.0	263.3068	26.01	-1.90	25981.650	3.5	63948.840	4.5
263.0431	23.00	-6.54	2220.130	2.5	40225.380	1.5	263.3075	25.01	-1.93	44745.460	2.0	82712.550	3.0
263.0486	23.01	-1.42	34946.550	4.0	72951.000	4.0	263.3130	74.00	-1.45	1613.150	0.0	39590.766	0.0
263.0513	26.01	-3.16	23031.300	1.5	61035.370	.5	263.3147	23.00	-7.75	2153.200	1.5	40119.260	2.5
263.0530	73.01	.22	6775.232	0.0	44790.385	0.0	263.3196	26.01	-1.57	38164.240	2.5	76129.580	1.5
263.0531	26.02	-1.99	83237.860	3.0	121241.670	4.0	263.3234	17.02	-1.05	201765.100	2.5	239729.900	2.5
263.0536	27.01	-2.13	25861.460	0.0	63665.200	1.0	263.3250	25.01	-1.08	41182.530	7.0	79147.100	7.0
263.0555	23.00	-7.64	2311.370	3.5	40314.830	3.5	263.3268	23.01	-1.82	26839.820	3.0	64804.130	2.0
263.0558	28.01	-4.35	99559.330	2.5	137562.740	3.5	263.3277	28.01	-2.62	99559.330	2.5	137523.510	3.5
263.0563	25.00	-1.01	25285.430	4.5	63288.780	3.5	263.3330	90.01	-1.57	8388.382	0.0	46363.114	0.0
263.0563	25.00	-1.04	25285.430	4.5	63288.780	5.5	263.3337	25.01	-1.29	43696.190	3.0	81659.500	3.0
263.0610	24.01	-1.60	49351.960	2.5	87354.620	1.5	263.3359	24.00	-3.80	8095.210	3.0	46058.200	.40
263.0664	23.01	-1.14	14655.630	5.0	52657.510	4.0	263.3395	25.01	-1.45	43850.420	2.0	81812.900	2.0
263.0723	25.00	-1.60	25287.740	3.5	63288.780	3.5	263.3420	26.01	-2.05	61726.090	3.5	99688.200	3.5
263.0746	30.02	-2.41	264826.300	1.0	302827.000	2.0	263.3454	23.01	-1.59	34946.550	4.0	72908.170	3.0
263.0750	75.00	-1.61	14921.661	0.0	52933.615	0.0	263.3460	44.00	-1.29	11372.710	0.0	49345.567	0.0
263.0763	23.00	-2.83	323.420	3.5	38323.870	4.5	263.3491	24.01	-3.23	32355.940	3.5	70317.040	2.5
263.0773	23.00	-6.94	2153.200	1.5	40153.510	2.5	263.3539	25.03	-3.61	137853.000	4.0	175813.400	4.0
263.0781	28.02	-2.81	79250.800	4.0	117251.000	3.0	263.3561	28.01	-2.90	29070.930	1.5	67031.020	.5
263.0910	40.01	-1.07	4436.164	0.0	42445.826	0.0	263.3574	28.01	-2.58	99559.330	2.5	137519.230	2.5
263.0924	24.01	-1.61	30307.600	1.5	68305.730	1.5	263.3590	23.00	-2.51	0.000	1.5	37959.660	2.5
263.0931	9.02	-1.47	380250.520	2.5	418248.560	1.5	263.3599	24.01	-1.38	49706.470	2.5	87666.000	2.5
263.0948	24.01	-2.37	32854.460	4.5	70852.240	3.5	263.3610	75.00	-1.22	15082.956	0.0	53053.650	0.0
263.0988	24.01	-1.16	31351.150	2.5	69348.360	1.5	263.3662	27.01	-3.01	48388.100	2.0	86346.730	3.0
263.0992	24.01	-3.12	32855.090	2.5	70852.240	3.5	263.3670	23.01	-4.39	9097.810	4.0	47056.320	4.0
263.1006	26.01	-1.12	22810.330	3.5	60807.280	4.5	263.3683	28.01	-4.30	92373.450	2.5	130331.780	1.5
263.1049	26.01	-1.26	862.630	1.5	38858.960	2.5	263.3713	28.01	-3.46	67880.160	2.5	105838.060	3.5
263.1061	24.00	-1.45	23933.900	4.0	61930.050	3.0	263.3742	25.01	-1.63	32787.600	4.0	70745.080	3.0
263.1081	24.01	-2.76	67369.330	5.5	105365.200	4.5	263.3768	30.02	-2.28	257678.700	2.0	295635.800	3.0
263.1092	28.02	-2.03	82277.000	1.0	120272.700	1.0	263.3768	30.02	-3.43	257678.700	2.0	295635.800	2.0
263.1093	9												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
263.4453	25.01	-2.45	70231.070	2.0	108172.540	1.0
263.4456	9.02	-1.48	380307.130	1.5	418248.560	1.5
263.4916	26.00	-4.16	19757.020	3.0	57697.590	4.0
263.4933	29.00	-1.01	39038.240	0.0	76989.869	0.0
263.4998	25.01	-3.42	70231.070	2.0	108170.450	2.0
263.5011	17.01	-2.61	121635.000	3.0	159574.200	2.0
263.5057	28.01	-3.52	78955.450	1.5	116893.980	2.5
263.5068	28.01	-4.74	99844.130	3.5	137782.500	4.5
263.5108	19.02	-1.73	208687.800	1.5	246625.600	1.5
263.5209	23.01	-1.16	34745.720	3.0	72682.060	2.0
263.5270	77.00	-1.05	4032.876	0.0	41979.652	0.0
263.5314	26.02	-2.62	97041.380	3.0	134976.220	3.0
263.5373	9.03	.41	538854.100	4.0	576788.100	5.0
263.5385	9.02	-1.73	389525.550	1.5	427459.370	.5
263.5397	26.01	-1.33	26352.800	4.5	64286.440	3.5
263.5415	23.00	-9.50	2220.130	2.5	40153.510	2.5
263.5420	40.00	-.64	1209.863	0.0	39154.479	0.0
263.5424	10.01	-2.85	280268.960	2.5	318202.210	1.5
263.5425	23.01	-.24	35483.390	6.0	73415.630	5.0
263.5462	24.00	-.25	24897.550	4.0	62830.260	5.0
263.5482	28.01	-4.87	99844.130	3.5	137775.550	3.5
263.5495	25.00	-.78	30354.210	3.5	68285.440	4.5
263.5499	9.02	-4.00	426989.570	3.5	464921.740	3.5
263.5500	63.01	-2.08	0.0000	0.0	37943.464	0.0
263.5510	18.02	-1.69	188714.050	3.0	226645.060	4.0
263.5553	25.00	-1.41	23549.200	2.5	61480.600	3.5
263.5570	42.00	-.25	11775.998	0.0	49718.454	0.0
263.5570	72.00	-.98	6533.259	0.0	44475.715	0.0
263.5571	22.01	.07	30836.520	1.5	68767.660	1.5
263.5580	73.01	.70	967.890	0.0	38910.203	0.0
263.5585	25.01	-4.47	44899.820	3.0	82830.750	4.0
263.5631	25.01	.04	43850.420	2.0	81780.700	3.0
263.5635	23.01	-1.34	14461.730	3.0	52391.940	3.0
263.5667	23.02	-1.33	61578.740	.5	99508.500	1.5
263.5676	25.02	-3.52	138340.620	2.5	176270.250	2.5
263.5750	23.01	-2.05	34745.720	3.0	72674.280	2.0
263.5775	24.00	-.36	24833.860	3.0	62762.060	4.0
263.5790	72.01	.12	17583.339	0.0	55522.629	0.0
263.5806	10.02	-.79	398988.640	2.0	436914.390	2.0
263.5810	26.00	-.64	7985.783	2.0	45913.480	3.0
263.5825	26.00	-1.47	21999.132	4.0	59925.620	5.0
263.5830	75.01	1.16	17099.394	0.0	55038.108	0.0
263.5852	27.01	-2.01	27585.300	1.0	65512.400	0.0
263.5860	44.00	.45	9517.587	0.0	47455.869	0.0
263.5930	73.00	-1.35	1935.780	0.0	39873.055	0.0
263.5936	25.01	-1.21	43311.000	1.0	81236.890	1.0
263.5989	23.01	-3.14	34592.720	2.0	72517.840	1.0
263.6037	10.01	-2.01	281171.380	2.5	319095.810	2.5
263.6038	27.01	-.73	27484.300	3.0	65409.710	2.0
263.6057	10.01	-.70	281171.380	2.5	319095.520	3.5
263.6067	24.02	-3.84	120699.700	3.0	158623.700	4.0
263.6078	10.01	-.42	280262.330	3.5	318186.170	4.5
263.6102	24.00	-2.93	7810.820	1.0	45734.320	2.0
263.6140	25.01	-1.82	43131.400	2.0	81054.350	2.0
263.6162	26.00	-1.63	22249.430	3.0	60172.060	4.0
263.6175	25.01	-4.63	29889.310	3.0	67811.750	3.0
263.6183	23.00	-3.97	323.420	3.5	38245.750	3.5
263.6183	25.01	-2.28	69044.610	2.0	106965.940	2.0
263.6200	25.01	-1.21	41190.470	6.0	79112.560	5.0
263.6204	25.00	-2.20	23549.200	2.5	61471.230	2.5
263.6314	24.01	-.42	49838.430	4.5	87758.680	3.5
263.6318	24.00	-1.03	24056.110	5.0	61975.500	4.0
263.6330	25.01	-.95	43131.400	2.0	81051.620	3.0
263.6359	18.01	-4.47	132481.140	2.5	170400.940	2.5
263.6363	27.00	-1.55	15184.040	2.5	53103.780	3.5
263.6370	73.00	-.54	9598.245	0.0	47529.188	0.0
263.6407	23.03	-.50	216905.000	1.0	254824.100	1.0
263.6416	25.00	-1.10	30419.610	2.5	68338.590	3.5
263.6455	24.01	-1.17	29952.080	.5	67870.500	1.5
263.6458	24.01	-1.34	48749.570	.5	86667.950	1.5
263.6479	26.00	-1.49	7376.762	4.0	45294.830	5.0
263.6485	10.01	-4.29	280262.330	3.5	318180.310	2.5
263.6488	25.01	-3.48	69044.610	2.0	106962.560	1.0
263.6544	25.00	-4.49	17451.520	2.5	55363.660	1.5
263.6550	74.00	-.74	2903.671	0.0	40832.024	0.0
263.6553	25.01	-3.55	44315.170	6.0	82232.180	5.0
263.6583	24.01	-3.72	35569.020	2.5	73485.200	3.5
263.6597	24.01	-.96	67448.820	4.5	105365.600	4.5
263.6633	29.01	-3.47	85388.770	2.0	123304.630	1.0
263.6640	75.00	-1.20	0.0000	0.0	37927.059	0.0
263.6654	24.01	-2.70	67506.340	5.5	105421.900	5.5
263.6670	44.00	.55	12098.628	0.0	50025.255	0.0
263.6670	42.01	.58	11937.313	0.0	49863.940	0.0
263.6670	73.00	-.27	3871.561	0.0	41798.188	0.0
263.6679	11.02	-3.22	373633.000	1.5	411548.200	2.5
263.6687	26.01	-1.59	38214.500	1.5	76129.580	1.5
263.6709	25.00	-2.83	23296.670	3.5	61211.340	4.5
263.6736	26.02	-1.51	181828.660	2.0	219743.040	1.0
263.6754	15.01	-1.07	65252.250	1.0	103166.370	1.0
263.6821	28.01	-.25	70635.460	2.5	108548.610	1.5
263.6852	26.01	-1.67	65696.110	4.5	103608.820	4.5
263.6885	25.01	-.42	51553.060	5.0	89465.300	4.0
263.6900	73.00	.19	5565.369	0.0	43488.688	0.0
263.6908	18.01	-2.33	172213.800	1.5	210125.700	2.5
263.6913	16.02	-.61	172785.770	1.0	210697.600	2.0
263.6917	24.00	-3.51	7810.820	1.0	45722.590	0.0
263.6946	10.01	-1.83	280268.960	2.5	318180.310	2.5
263.6950	23.03	-.94	217836.300	3.0	255747.600	3.0
263.6977	10.01	-2.93	280268.960	2.5	318179.870	1.5
263.7000	72.00	-.72	2339.068	0.0	40260.949	0.0
263.7010	75.01	1.02	19035.175	0.0	56956.912	0.0
263.7027	26.02	-3.11	144570.530	3.0	182480.720	2.0
263.7130	76.00	.07	0.0000	0.0	37920.012	0.0
263.7153	24.00	-3.64	7810.820	1.0	45719.200	1.0
263.7164	25.01	-.57	41204.340	5.0	79112.560	5.0
263.7178	25.01	-2.06	37811.570	1.0	75719.590	1.0
263.7192	24.01	-1.10	29952.080	.5	67859.910	.5
263.7237	26.02	-2.61	144501.740	2.0	182408.910	3.0
263.7297	9.02	-3.15	357479.350	1.5	395385.660	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
263.7317	26.01	-2.67	42439.880	.5	80345.910	.5
263.7342	23.00	-6.21	2220.130	2.5	40125.790	3.5
263.7345	25.01	-1.75	69044.610	2.0	106950.240	3.0
263.7378	24.00	-4.27	8095.210	3.0	46000.360	3.0
263.7388	26.01	-2.78	66078.340	2.5	103983.350	3.5
263.7446	25.00	-4.93	17282.000	3.5	55186.170	2.5
263.7468	24.01	-.59	34813.060	5.5	72716.910	4.5
263.7502	26.01	-.48	46967.470	2.5	84870.840	2.5
263.7537	28.01	-4.45	100592.980	3.5	138495.840	4.5
263.7549	24.00	-4.84	23163.270	0.0	61065.960	1.0
263.7597	23.01	-2.33	18269.490	1.0	56171.490	1.0
263.7625	30.02	-2.14	220006.600	1.0	257908.200	1.0
263.7633	26.00	-4.16	19912.486	2.0	57813.970	3.0
263.7640	26.01	-.49	26932.740	.5	64834.120	1.5
263.7702	13.01	-.02	95546.800	3.0	133447.300	4.0
263.7712	25.02	-3.96	94397.200	3.5	132297.550	2.5
263.7781	25.01	-2.62	27583.300	4.0	65482.660	3.0
263.7797	23.00	-7.13	2220.130	2.5	40119.260	3.0
263.7809	10.01	-2.41	280262.330	3.5	318161.290	2.5
263.7821	26.02	-4.48	113635.340	4.0	151534.130	3.0
263.7830	10.01	-1.28	280262.330	3.5	318160.990	3.5
263.7841	23.02	-4.32	103034.650	4.0	140933.140	3.5
263.7875	23.01	-3.45	8841.970	3.0	46739.980	2.0
263.7878	25.01	.22	44521.520	4.0	82419.480	3.0
263.7890	25.01	-1.26	43339.100	2.0	81236.890	1.0
263.7913	25.01	-1.97	49820.160	2.0	87717.620	3.0
263.7917	25.01	-4.11	29869.110	2.0	67766.510	2.0
263.7930	73.01	-.80	0.0000	0.0	37908.512	0.0
263.7980	41.01	.17	10485.478	0.0	48393.271	0.0
263.7980	76.00	-.26	12663.231	0.0	50571.024	0.0
263.7983	26.02	-2.95	97041.380	3.0	134937.840	2.0
263.8025	26.00	-9.51	12560.933	3.0	50456.790	3.0
263.8057	24.01	-4.97	30864.610	2.5	68760.000	3.5
263.8097	10.01	-2.66	280262.330	3.5	318157.150	3.5
263.8124	25.01	-1.16	27588.230	3.0	65482.660	3.0
263.8173	10.01	-4.55	280262.330	3.5	318156.060	4.5
263.8180	25.01	.35	27589.030	2.0	65482.660	3.0
263.8182	13.01	-1.08	95546.800	3.0	133440.400	3.0
263.8211	15.01	-1.62	65273.180	2.0	103166.370	1.0
263.8256	25.01	-2.51	29919.220	2.0	67811.750	3.0
263.8259	13.01	-.18	95547.900	2.0	133440.400	3.0
263.8271	10.01	-1.50	280268.960	2.5	318161.29	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
263.9906	24.01	-0.92	49646.250	3.5	87515.100	3.5	264.2581	25.00	-4.74	24802.250	3.5	62632.770	3.5
263.9907	9.02	-2.24	427545.310	1.5	485414.140	2.5	264.2665	25.02	-2.48	138635.460	2.5	176464.760	3.5
263.9908	27.00	-2.62	8460.810	2.5	46329.630	2.5	264.2710	24.01	-4.31	35607.600	3.5	73436.270	2.5
263.9917	28.01	-3.03	78955.450	1.5	116824.150	2.5	264.2711	26.00	-8.25	11976.239	4.0	49804.900	3.0
263.9964	10.00	-4.45	134459.287	1.0	172327.300	0.0	264.2717	23.01	-4.42	30318.630	4.0	68147.200	4.0
263.9980	76.00	-5.51	14760.326	0.0	52639.401	0.0	264.2750	75.00	-1.16	11695.340	0.0	49534.712	0.0
264.0018	24.01	-2.99	35569.020	2.5	73436.270	2.5	264.2750	72.00	-1.46	4516.821	0.0	42356.193	0.0
264.0047	24.00	-3.07	8307.570	4.0	46174.400	3.0	264.2766	25.01	-2.09	70342.580	3.0	108170.450	2.0
264.0090	28.01	-3.11	68156.570	1.5	106022.790	.5	264.2774	25.01	-1.36	49889.860	3.0	87717.620	3.0
264.0104	25.01	-1.78	44521.520	4.0	82387.530	3.0	264.2791	10.00	-3.79	134459.287	1.0	172286.800	2.0
264.0125	23.03	-1.97	226617.100	1.0	264482.800	2.0	264.2807	25.01	-1.38	44315.170	6.0	82142.460	6.0
264.0209	24.00	-1.93	24897.550	4.0	62762.060	4.0	264.2833	26.00	-4.92	17927.378	1.0	55754.290	2.0
264.0210	30.02	-0.59	265005.300	2.0	302869.800	3.0	264.2835	26.02	-2.00	181828.660	2.0	219655.550	2.0
264.0215	24.00	-1.17	25038.610	5.0	62903.030	6.0	264.2881	27.00	-2.29	4142.660	3.5	41968.890	2.5
264.0284	7.01	-1.54	188857.370	2.0	226720.800	2.0	264.2930	26.02	-1.40	181830.020	3.0	219655.550	2.0
264.0330	44.00	.10	9114.300	0.0	46988.354	0.0	264.2930	25.00	-3.41	17282.000	3.5	55107.520	3.5
264.0336	18.03	.16	251972.000	2.5	289834.680	2.5	264.2960	44.00	.64	8469.040	0.0	46305.405	0.0
264.0363	30.02	-0.56	262235.800	3.0	300098.100	4.0	264.2967	26.01	-1.16	54870.620	2.5	92695.620	2.5
264.0380	77.00	-0.79	10485.478	0.0	48358.814	0.0	264.2984	24.01	-0.81	32854.460	4.5	70679.220	4.5
264.0384	13.01	-1.65	106918.200	1.0	144780.200	2.0	264.2997	25.00	-4.86	18531.640	3.5	56356.210	3.5
264.0400	90.01	-1.60	4436.164	0.0	42309.214	0.0	264.3053	24.01	-2.73	31168.780	3.5	68992.550	4.5
264.0405	27.02	-3.48	134079.800	1.5	171941.500	.5	264.3072	24.01	-3.28	32603.730	2.5	70427.220	3.5
264.0405	27.02	-3.48	134079.800	1.5	171941.500	.5	264.3078	27.01	-2.27	27585.300	1.0	65408.710	2.0
264.0410	24.01	-0.31	49493.000	.5	87354.620	1.5	264.3103	23.01	-2.06	11908.270	2.0	49731.320	2.0
264.0437	7.01	-2.42	188857.370	2.0	226718.600	1.0	264.3120	74.00	.16	13711.778	0.0	51545.853	0.0
264.0468	26.02	-4.79	113677.010	5.0	151537.800	4.0	264.3124	23.00	-6.92	2112.320	.5	39935.070	1.5
264.0517	24.01	-2.05	53566.220	3.5	91426.310	2.5	264.3145	28.00	-2.84	13521.352	2.0	51343.800	2.0
264.0561	10.02	-1.34	374460.750	1.0	412320.210	2.0	264.3157	23.00	-1.52	137.380	2.5	37959.650	2.5
264.0603	24.01	-2.36	67506.340	5.5	105365.200	4.5	264.3175	26.02	-3.95	144570.530	3.0	182392.560	2.0
264.0617	25.00	-1.63	25281.040	2.5	63139.700	2.5	264.3177	9.03	-1.27	551366.000	3.0	589188.000	2.0
264.0635	24.02	-2.23	120765.300	5.0	158623.700	4.0	264.3197	30.02	-1.18	265005.300	2.0	302827.000	2.0
264.0635	9.03	-0.31	538597.800	3.0	576456.200	3.0	264.3245	7.01	-1.72	188857.370	2.0	226678.400	2.0
264.0663	10.02	-0.00	398986.640	2.0	436844.630	3.0	264.3246	24.01	-0.72	49493.000	.5	87314.000	.5
264.0663	10.01	-1.29	280947.100	1.5	318805.100	2.5	264.3270	90.01	-1.30	6936.547	0.0	44768.475	0.0
264.0712	24.02	-0.52	71676.200	4.0	109533.500	4.0	264.3313	25.00	-3.70	17637.150	.5	55457.200	.5
264.0712	30.02	-4.27	257796.000	5.0	295653.300	6.0	264.3332	26.01	-1.18	60625.470	5.5	98445.240	4.5
264.0721	10.01	-2.79	280947.100	1.5	318804.260	1.5	264.3350	12.00	-2.13	21870.464	1.0	59689.991	2.0
264.0770	69.01	-1.14	161.315	0.0	38029.058	0.0	264.3367	26.01	-3.96	61512.670	4.5	99331.950	4.5
264.0855	23.01	.60	34592.720	2.0	72447.960	3.0	264.3400	40.01	-0.93	241.973	0.0	38072.040	0.0
264.0920	41.00	-0.32	2097.096	0.0	39962.688	0.0	264.3413	7.01	-0.71	188857.370	2.0	226675.990	3.0
264.0971	28.01	-1.43	68154.310	1.5	106007.890	2.5	264.3415	8.02	-1.91	294001.600	2.0	331820.200	3.0
264.0990	42.00	.50	11775.998	0.0	49640.587	0.0	264.3498	30.02	-1.45	262235.800	3.0	300053.200	2.0
264.1020	75.01	.49	14760.326	0.0	52624.485	0.0	264.3544	24.01	-0.68	31531.620	1.5	69348.360	1.5
264.1025	26.00	-1.38	19788.248	4.0	57641.060	3.0	264.3582	27.02	-5.00	133711.400	2.5	171527.600	3.5
264.1026	22.01	-2.37	29968.080	4.5	67820.870	4.5	264.3626	10.01	-1.08	280989.530	1.5	318805.100	2.5
264.1056	10.02	-0.61	374460.750	1.0	412313.110	1.0	264.3630	76.00	-0.14	12663.231	0.0	50490.007	0.0
264.1060	41.01	.10	10808.108	0.0	48671.693	0.0	264.3639	25.01	-3.65	29951.120	1.0	67766.510	2.0
264.1080	22.00	-0.50	0.000	2.0	37852.021	1.0	264.3685	10.01	-1.60	280989.530	1.5	318804.260	1.5
264.1084	25.00	-1.19	25287.740	3.5	63139.700	2.5	264.3689	9.02	-2.63	430012.480	1.5	467827.160	1.5
264.1086	23.00	-3.30	553.020	4.5	38404.960	5.5	264.3706	23.00	-5.63	2311.370	3.5	40125.790	3.5
264.1115	28.01	-0.84	68281.620	.5	106133.140	1.5	264.3810	42.00	-0.57	11050.080	0.0	48874.281	0.0
264.1123	26.01	-1.63	21812.040	1.5	59663.450	1.5	264.3817	25.02	-3.36	134638.390	1.5	172451.230	1.5
264.1151	8.03	-1.71	596331.000	3.5	634182.000	3.5	264.3824	25.01	-1.14	44899.820	3.0	82712.550	3.0
264.1164	9.02	-0.10	414897.720	3.5	452748.540	2.5	264.3890	73.00	-0.46	5968.656	0.0	43791.712	0.0
264.1170	76.00	-0.11	15082.956	0.0	52944.564	0.0	264.3897	29.02	-1.71	89017.700	4.5	126829.400	3.5
264.1270	63.01	-1.00	0.000	0.0	37860.575	0.0	264.3901	7.01	-1.22	188909.170	1.0	226720.800	2.0
264.1275	24.01	-0.10	49838.430	4.5	87687.660	4.5	264.3906	25.01	-2.50	30684.810	1.0	68496.370	1.0
264.1328	24.01	.08	49564.800	1.5	87413.270	2.5	264.3985	23.01	-0.88	35483.390	6.0	73293.820	5.0
264.1349	26.02	-2.72	144570.530	3.0	182418.700	4.0	264.3999	26.00	-0.70	8154.713	1.0	45964.944	2.0
264.1368	56.01	-1.31	21952.422	0.0	59811.592	0.0	264.4055	7.01	-1.32	188909.170	1.0	226718.600	1.0
264.1409	26.02	-1.91	83161.480	4.0	121008.780	3.0	264.4071	10.01	-3.77	281025.940	2.5	318835.140	2.5
264.1410	25.01	-3.50	29919.220	2.0	67766.510	2.0	264.4074	9.02	-2.53	427731.850	2.5	465541.000	1.5
264.1410	72.01	.67	8307.725	0.0	46166.293	0.0	264.4080	25.01	-0.37	43850.420	2.0	81659.500	3.0
264.1416	30.02	-0.82	262235.800	3.0	300083.000	3.0	264.4087	23.00	-0.76	2153.200	1.5	39962.710	2.5
264.1429	26.01	-1.87	61726.090	3.5	99573.110	4.5	264.4088	22.01	-0.51	30958.700	2.5	68767.660	1.5
264.1452	23.00	-6.58	2153.200	1.5	39999.890	2.5	264.4096	10.01	-2.12	281025.940	2.5	318834.780	3.5
264.1490	90.01	-0.85	0.000	0.0	37857.421	0.0	264.4110	76.00	-0.24	0.000	0.0	37819.909	0.0
264.1490	79.00	-0.86	9114.300	0.0	46971.721	0.0	264.4111	24.01	-0.23	49706.470	2.5	87515.100	3.5
264.1500	29.02	-2.44	89045.900	3.5	126891.900	2.5	264.4117	25.01	-1.30	43339.100	2.0	81147.650	2.0
264.1527	10.01	-1.61	280989.530	1.5	318835.140	2.5	264.4125	22.00	-0.16	7255.369	2.0	45063.800	2.0
264.1553	24.01	-3.38	48749.570	.5	86594.820	1.5	264.4163	23.00	-5.75	2311.370	3.5	40119.260	2.5
264.1600	76.00	.02	10969.423	0.0	48825.268	0.0	264.4177	9.02	-1.94	389737.630	.5	427545.310	1.5
264.1647	26.00	-1.24	7376.762	4.0	45220.662	3.0	264.4190	32.00	-0.36	16292.819	0.0	54111.584	0.0
264.1709	26.01	-2.40	42334.860	2.5	80177.870	1.5	264.4190	77.00	-0.76	5726.684	0.0	43549.449	0.0
264.1732	23.01	-1.42	34946.550	4.0	72789.230	3.0	264.4236	24.00	-2.88	7927.470	2.0	45734.320	2.0
264.1753	24.01	-1.37	32836.840	3.5	70679.220	4.5	264.4250	22.00	-0.37	170.132	3.0	37976.780	2.0
264.1770	23.00	-6.37	2311.370	3.5	40153.510	2.5	264.4300	70.01	-0.21	32908.268	0.0	70725.460	0.0
264.1771	26.02	-3.64	144570.530	3.0	182412.650	4.0	264.4342	24.01	-0.71	15669.750	2.5	89475.080	2.5
264.1791													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
264.5294	24.00	-3.91	7927.470	2.0	45719.200	1.0	264.8150	26.01	-2.44	38164.240	2.5	75915.210	2.5
264.5299	24.00	-3.10	25038.610	5.0	62830.260	5.0	264.8167	26.00	-4.07	11976.230	4.0	49726.964	4.0
264.5303	29.00	-1.47	40086.787	0.0	77889.640	0.0	264.8174	24.00	-3.52	8307.570	4.0	46058.200	4.0
264.5336	26.01	-0.03	54904.500	3.5	92695.620	2.5	264.8183	9.03	-4.46	538854.100	4.0	576604.600	4.0
264.5410	26.02	-1.44	84159.550	4.0	121949.620	5.0	264.8227	10.00	-4.66	134041.840	2.0	171791.700	2.0
264.5423	26.00	-2.69	888.132	1.0	38678.015	2.0	264.8274	24.01	-0.73	49564.800	1.5	87314.000	1.5
264.5427	24.01	-1.36	49564.800	1.5	87354.620	1.5	264.8372	26.01	-2.95	32836.840	3.5	70584.640	2.5
264.5430	28.01	-4.22	100332.090	4.5	138121.880	4.5	264.8391	27.01	-0.66	47848.500	1.0	85596.030	2.0
264.5436	25.02	-4.31	138128.800	1.5	175918.500	1.5	264.8429	27.02	-3.22	73214.500	1.5	110961.500	1.5
264.5447	23.02	-3.97	102961.280	3.5	140750.820	2.5	264.8440	25.01	-2.50	69215.730	1.0	106962.560	1.0
264.5473	18.02	-1.17	188714.050	3.0	226503.220	3.0	264.8450	44.00	-0.59	7985.094	0.0	45743.028	0.0
264.5492	23.03	-1.35	225804.100	2.0	263593.000	2.0	264.8460	75.01	0.37	14840.984	0.0	52598.775	0.0
264.5500	9.02	-3.95	357479.350	1.5	395268.130	1.5	264.8470	23.01	-0.40	26839.820	3.0	64586.230	2.0
264.5511	28.01	-3.35	67880.160	2.5	105668.780	2.5	264.8477	9.03	-1.33	538597.800	3.0	576344.100	2.0
264.5538	14.01	-1.24	83802.210	0.5	121590.450	1.5	264.8557	10.00	-3.63	134041.840	2.0	171787.000	3.0
264.5548	23.03	0.42	218463.600	5.0	256251.700	4.0	264.8589	26.01	-1.66	61587.240	5.5	99331.950	4.5
264.5588	28.01	-3.60	77332.470	2.5	115120.000	2.5	264.8611	29.01	-3.48	71531.500	3.0	109275.900	3.0
264.5591	26.01	-1.45	62962.260	1.5	100749.750	2.5	264.8627	10.00	-4.33	134818.640	0.0	172562.800	1.0
264.5602	29.01	-2.52	115662.770	4.0	153450.100	5.0	264.8636	27.00	-1.20	4690.180	2.5	42434.230	2.5
264.5637	10.01	-0.56	281025.940	2.5	318812.770	3.5	264.8644	22.00	-2.20	0.000	2.0	37743.933	3.0
264.5647	25.00	-2.57	27201.540	2.5	64988.220	3.5	264.8646	25.01	-0.80	48317.850	4.0	86061.750	3.0
264.5690	74.00	0.35	15002.299	0.0	52799.622	0.0	264.8685	25.01	-0.03	43311.000	1.0	81054.350	2.0
264.5730	17.02	-1.72	205037.300	1.5	242822.800	2.5	264.8695	24.02	-2.79	120699.700	3.0	158462.900	4.0
264.5761	25.00	-3.81	24788.050	2.5	62573.110	1.5	264.8696	26.01	-2.22	46967.470	2.5	84710.660	3.5
264.5838	23.01	-1.04	14461.730	3.0	52245.680	2.0	264.8699	25.02	-3.88	139944.400	3.5	177687.540	3.5
264.5870	29.02	-3.48	89045.900	3.5	126829.400	3.5	264.8713	27.00	-0.59	3482.820	4.5	41225.760	4.5
264.5908	26.01	-1.21	47389.820	1.5	85172.770	1.5	264.8713	22.01	-2.81	31207.440	2.5	68950.390	3.5
264.5915	7.01	-4.19	188857.370	2.0	226640.220	3.0	264.8718	28.01	-2.48	14995.570	2.5	52738.450	2.5
264.5984	23.00	-8.92	2153.200	1.5	39935.070	1.5	264.8723	25.01	-1.53	43536.900	4.0	81279.710	4.0
264.5993	26.02	-2.49	84159.550	4.0	121941.290	4.0	264.8773	10.01	-3.69	276276.850	1.5	314018.940	1.5
264.6020	7.01	-1.23	188937.240	0.0	226718.600	1.0	264.8777	23.00	-8.28	2220.130	2.5	39962.170	2.5
264.6020	44.00	-0.37	10566.135	0.0	48358.744	0.0	264.8780	44.00	-0.23	12098.628	0.0	49851.858	0.0
264.6042	23.00	-0.17	2220.130	2.5	40001.180	3.5	264.8800	25.00	-2.82	18402.460	2.5	56144.160	3.5
264.6085	22.01	0.54	31300.920	4.5	69081.350	4.5	264.8800	70.01	-0.81	32908.268	0.0	70661.213	0.0
264.6132	23.00	-0.42	2220.130	2.5	39999.890	2.5	264.8835	17.02	-1.37	201765.100	2.5	239506.300	1.5
264.6174	10.01	-1.58	281025.940	2.5	318805.100	2.5	264.8871	25.01	-3.92	69215.730	1.0	109556.420	1.0
264.6190	74.00	-0.36	3306.958	0.0	41097.139	0.0	264.8891	26.02	-1.30	181825.670	4.0	219566.080	3.0
264.6198	12.00	-2.61	21911.178	2.0	59689.991	2.0	264.8939	24.01	-3.56	32844.920	1.5	70584.640	2.5
264.6207	12.00	-2.69	21870.464	1.0	59649.150	1.0	264.8939	25.01	-1.30	32787.600	4.0	70527.320	5.0
264.6210	26.01	-1.66	26170.190	5.5	63948.840	4.5	264.8978	23.02	-2.13	49805.290	3.5	87544.460	4.5
264.6233	10.01	-3.06	281025.940	2.5	318804.260	1.5	264.9000	9.02	-1.11	426989.570	3.5	464728.420	4.5
264.6260	41.01	-0.07	403.288	0.0	38192.470	0.0	264.9050	75.00	0.02	14115.066	0.0	51864.448	0.0
264.6357	26.01	-2.62	42401.330	1.5	80177.870	1.5	264.9060	8.03	-2.48	596444.000	2.5	634182.000	3.5
264.6370	73.00	-0.42	1935.780	0.0	39723.391	0.0	264.9061	26.01	-2.69	42439.880	0.5	80177.870	1.5
264.6406	26.01	-0.14	23317.600	2.5	61093.440	2.5	264.9062	12.00	-2.47	21911.178	2.0	59649.150	1.0
264.6413	27.00	-0.94	4142.660	3.5	41918.410	3.5	264.9101	26.02	-3.14	181828.660	2.0	219566.080	3.0
264.6422	28.01	-2.74	77332.470	2.5	115108.090	2.5	264.9150	72.01	-0.20	14276.381	0.0	50243.338	0.0
264.6440	70.01	-0.81	33311.556	0.0	71098.167	0.0	264.9193	26.02	-4.29	87901.870	3.0	125637.980	3.0
264.6490	42.01	0.64	12340.601	0.0	50126.499	0.0	264.9196	26.02	-1.86	181830.020	3.0	219566.080	3.0
264.6500	56.00	-2.45	0.000	0.0	37785.755	0.0	264.9250	42.00	-0.65	11372.710	0.0	49119.242	0.0
264.6556	15.01	-1.06	101636.490	1.0	139410.200	2.0	264.9252	25.00	-1.79	24779.320	1.5	62514.590	2.5
264.6601	24.01	-2.50	31219.490	4.5	68992.550	4.5	264.9276	23.00	-5.90	2112.320	0.5	39847.240	1.5
264.6617	22.00	-0.29	386.874	4.0	38159.710	3.0	264.9295	25.00	-4.70	17451.520	2.5	55186.170	2.5
264.6668	23.00	-7.56	2112.320	0.5	39884.430	1.5	264.9340	76.00	0.40	11292.053	0.0	49037.303	0.0
264.6678	26.01	-2.48	25787.600	1.5	63559.560	0.5	264.9366	23.01	0.79	34946.550	4.0	72680.200	5.0
264.6740	73.01	1.05	11775.998	0.0	49558.320	0.0	264.9440	28.01	-0.79	70635.460	2.5	108368.050	2.5
264.6740	74.00	-0.38	4758.794	0.0	42541.122	0.0	264.9444	25.01	-2.10	30684.810	1.0	68417.340	2.0
264.6748	26.02	-2.46	87901.870	3.0	125672.830	2.0	264.9456	26.02	-1.91	92523.910	5.0	130256.270	5.0
264.6751	26.02	-2.14	83237.860	3.0	121008.780	3.0	264.9459	26.01	0.34	54870.620	2.5	92602.940	3.5
264.6756	23.00	-4.32	553.020	4.5	38323.870	4.5	264.9460	42.00	0.69	11775.998	0.0	49519.538	0.0
264.6870	7.01	-1.23	188909.170	1.0	226678.400	2.0	264.9510	44.00	-0.16	8952.985	0.0	46695.813	0.0
264.6890	76.00	0.24	10082.190	0.0	47862.377	0.0	264.9514	22.01	-0.38	31113.610	3.5	68845.140	2.5
264.6890	78.00	-0.49	0.000	0.0	37780.187	0.0	264.9516	25.00	-4.14	17637.150	0.5	55368.660	1.5
264.6900	28.01	-0.36	54557.050	4.5	92325.850	3.5	264.9520	41.00	0.08	2097.096	0.0	39839.781	0.0
264.7025	24.01	-0.33	49646.250	3.5	87413.270	2.5	264.9527	23.02	-1.88	61777.150	1.5	99508.500	1.5
264.7048	26.01	-0.98	62151.610	2.5	99918.300	1.5	264.9536	23.00	-0.61	2153.200	1.5	39884.430	1.5
264.7100	74.00	-0.61	6129.972	0.0	43907.162	0.0	264.9580	75.00	-0.60	17099.394	0.0	54841.225	0.0
264.7130	75.00	-1.77	0.000	0.0	37776.762	0.0	264.9601	18.01	-3.52	135085.920	1.5	172816.210	1.5
264.7145	23.00	-0.31	2112.320	0.5	39877.620	0.5	264.9613	25.01	-4.55	32787.600	4.0	70517.720	3.0
264.7243	24.02	-2.56	120699.700	3.0	158463.600	3.0	264.9654	24.01	-1.61	32855.090	2.5	70584.640	2.5
264.7243	18.01	-1.42	161048.640	1.5	198812.550	2.5	264.9718	10.01	-3.42	280473.580	1.5	318202.210	1.5
264.7250	42.00	-0.71	10646.793	0.0	48421.843	0.0	264.9748	24.02	-4.80	115843.500	6.0	153571.700	6.0
264.7257	23.01	-4.14	26839.820	3.0	64603.530	3.0	264.9761	10.01	-2.74	280473.580	1.5	318201.600	1.5
264.7263	56.01	-1.39	20261.562	0.0	58036.426	0.0	264.9790	30.02	-4.14	257908.200	1.0	295635.800	2.0
264.7280	45.00	-0.62	5565.369	0.0	43339.990	0.0	264.9790	70.01	-0.57	33311.556	0.0	71050.396	0.0
264.7290	72.01	0.66	8307.725	0.0	46082.204	0.0	264.9792	23.00	-0.41	2311.370	3.5	40038.950	4.5
264.7312	9.02	-1.25	426558.910	1.5	464321.840	2.5	264.9840	29.00	-1.31	40086.787	0.0	77824.915	0.0
264.7320	44.00	0.09	9114.300	0.0	46888.351	0.0	264.9865	25.00	-1.93	24788.050	2.5	6	

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
265.0730	70.01	-0.84	30085.255	0.0	67810.712	0.0	265.3772	18.02	-0.55	231341.800	2.0	269012.800	2.0
265.0743	26.00	-0.88	19390.165	6.0	57104.207	5.0	265.3780	76.00	-0.66	5726.684	0.0	43408.783	0.0
265.0795	24.01	-1.81	32603.730	2.5	70317.040	2.5	265.3871	27.01	-0.18	27484.300	3.0	65153.900	4.0
265.0850	28.01	-2.77	52205.950	3.5	89918.470	4.5	265.3871	25.03	-0.06	131170.100	3.0	168839.700	4.0
265.0850	25.01	-0.03	43339.100	2.0	81051.620	3.0	265.3904	26.01	-0.72	60625.470	5.5	98294.600	5.5
265.0860	78.00	-0.70	806.575	0.0	38530.182	0.0	265.3908	27.00	-3.97	7442.410	3.5	45111.480	4.5
265.0863	25.00	-3.54	24802.250	3.5	62514.590	2.5	265.3918	18.01	-0.93	155043.070	2.5	192712.000	1.5
265.0927	25.00	-0.01	17568.480	1.5	55279.910	1.5	265.3950	77.00	-0.27	15970.189	0.0	53649.874	0.0
265.0949	24.01	-2.33	30156.940	3.5	67868.050	2.5	265.3987	24.01	-1.36	51669.750	2.5	89337.700	1.5
265.0955	22.00	-7.21	7255.369	2.0	44966.390	1.0	265.3999	28.01	-3.03	77332.470	2.5	115000.250	3.5
265.0981	25.01	-1.13	44521.520	4.0	82232.180	5.0	265.4011	23.00	-2.55	553.020	4.5	38220.630	5.5
265.1009	10.00	-0.04	134041.840	2.0	171752.100	1.0	265.4028	22.00	-7.75	7255.369	2.0	44922.730	3.0
265.1039	25.01	-0.18	32787.600	4.0	70497.440	4.0	265.4049	18.01	-2.19	174409.830	1.5	212076.900	2.5
265.1120	41.01	0.60	10808.108	0.0	48528.015	0.0	265.4120	75.00	0.00	11534.025	0.0	49211.297	0.0
265.1160	72.01	0.30	17260.709	0.0	54980.047	0.0	265.4193	9.02	-1.89	426558.910	1.5	464223.930	1.5
265.1180	32.00	0.44	1371.178	0.0	39090.231	0.0	265.4244	23.00	-8.30	2220.130	2.5	39884.430	1.5
265.1196	17.02	-0.20	202367.600	3.5	240075.200	3.5	265.4282	10.01	-1.90	281171.380	2.5	318835.140	2.5
265.1220	73.01	0.45	4355.506	0.0	42075.990	0.0	265.4308	10.01	-1.02	281171.380	2.5	318834.780	3.5
265.1257	10.01	-1.12	280473.580	1.5	318180.310	2.5	265.4317	26.02	-1.04	181808.700	5.0	219471.970	4.0
265.1288	10.01	-1.50	280473.580	1.5	318179.870	2.5	265.4339	23.02	-2.04	61777.150	1.5	99440.100	2.5
265.1290	44.00	-0.06	7985.094	0.0	45702.582	0.0	265.4382	24.00	-6.09	7593.160	2.0	45255.510	3.0
265.1295	26.01	-2.41	26170.190	5.5	63876.380	5.5	265.4392	28.01	-2.32	92325.850	3.5	129988.050	2.5
265.1346	25.01	-2.48	44899.820	3.0	82605.290	4.0	265.4406	30.02	-1.07	262446.100	3.0	300108.100	3.0
265.1406	28.01	-3.38	68156.570	1.5	105861.190	2.5	265.4410	26.01	-1.23	70986.690	6.5	108648.640	6.5
265.1435	28.01	-3.51	98969.440	5.5	136673.640	4.5	265.4417	25.01	-2.75	33278.390	3.0	70940.240	2.0
265.1573	23.01	-0.40	34745.720	3.0	72447.960	3.0	265.4420	24.01	-0.90	49006.150	1.5	86667.950	1.5
265.1580	32.00	-0.08	0.000	0.0	37713.363	0.0	265.4442	26.02	-3.49	79860.420	5.0	117521.910	4.0
265.1590	24.03	-1.31	127218.000	3.5	164920.000	3.5	265.4450	41.00	0.15	1532.493	0.0	39205.081	0.0
265.1597	27.01	-2.01	27902.500	4.0	65504.400	3.0	265.4457	28.01	-1.98	70706.770	1.5	108368.050	2.5
265.1648	26.02	-0.04	142047.000	4.0	179748.170	5.0	265.4493	25.01	-3.92	32856.950	3.0	70517.720	3.0
265.1667	23.00	-0.06	2424.890	4.5	40125.790	3.5	265.4505	27.02	-3.36	134079.800	1.5	171740.400	1.5
265.1681	26.01	-0.98	38214.500	1.5	75915.210	2.5	265.4505	27.02	-3.36	134079.800	1.5	171740.400	1.5
265.1707	26.00	-1.48	7728.058	3.0	45428.385	4.0	265.4509	25.00	-4.95	23296.670	3.5	60957.210	3.5
265.1798	18.01	-3.51	158167.710	1.5	195866.760	1.5	265.4534	23.01	-4.36	11908.270	2.0	49568.450	3.0
265.1840	26.01	-1.08	54904.500	3.5	92602.940	3.5	265.4580	28.01	-3.44	68709.760	5.5	106369.300	1.5
265.1840	44.00	0.23	6452.602	0.0	44162.268	0.0	265.4603	25.00	-2.96	23296.670	3.5	60955.880	4.5
265.1844	26.01	-1.93	62125.660	1.5	99824.040	2.5	265.4618	18.02	0.22	231341.800	2.0	269000.800	3.0
265.1866	25.01	-0.16	49882.150	4.0	87580.230	4.0	265.4622	25.02	-3.57	100001.300	2.5	137660.240	3.5
265.1899	23.00	-0.66	137.380	2.5	37834.980	1.5	265.4626	25.01	-3.25	32858.840	2.0	70517.720	3.0
265.1900	75.00	-1.14	0.000	0.0	37708.813	0.0	265.4636	26.01	-2.02	47389.820	1.5	85048.560	1.5
265.1905	18.01	-2.16	172829.580	1.5	210527.100	2.5	265.4670	74.00	0.16	15324.920	0.0	52994.395	0.0
265.1947	18.01	-3.18	158167.710	1.5	195864.640	2.5	265.4688	18.05	-0.66	546021.000	1.5	583679.000	1.5
265.2075	24.02	-1.55	120747.800	4.0	158442.900	4.0	265.4702	25.00	-0.09	18531.640	3.5	56189.450	4.5
265.2100	27.00	-2.51	16470.600	1.5	54165.350	1.5	265.4784	24.01	-2.49	30219.040	4.5	67875.680	3.5
265.2122	22.01	-3.65	9930.740	1.5	47625.170	2.5	265.4829	25.00	-3.02	17451.520	2.5	55107.520	3.5
265.2131	24.01	-0.72	40415.340	5.5	78109.640	1.5	265.4849	24.00	-1.29	25106.340	3.0	62762.060	4.0
265.2141	24.00	-3.63	24282.340	4.0	61976.500	4.0	265.4914	15.03	-4.44	303350.000	3.0	341004.800	2.0
265.2146	24.02	-0.01	116391.600	2.0	154085.700	3.0	265.4916	22.00	-2.39	0.000	2.0	37654.770	2.0
265.2150	23.00	-5.47	2153.200	1.5	39847.240	1.5	265.4967	9.02	-1.29	390077.800	2.5	427731.850	2.5
265.2174	27.01	-0.21	46320.800	4.0	84014.500	5.0	265.4987	10.01	-3.97	291495.040	2.5	329148.800	1.5
265.2238	24.00	-0.60	8307.570	4.0	46000.360	3.0	265.4996	10.01	-4.63	291495.040	2.5	329148.800	1.5
265.2242	23.00	-5.22	553.020	4.5	38245.750	3.5	265.5030	42.00	0.66	12259.940	0.0	49924.301	0.0
265.2320	73.00	-0.63	9598.245	0.0	47301.086	0.0	265.5050	24.00	-1.90	25177.390	4.0	62830.260	5.0
265.2384	26.01	-2.80	58666.360	3.5	96357.070	3.5	265.5060	25.01	-3.78	70517.720	3.0	108170.450	2.0
265.2408	25.01	-1.96	49889.860	3.0	87580.230	4.0	265.5062	27.01	-3.83	13261.100	2.0	50913.800	2.0
265.2412	28.01	-0.56	71457.740	3.5	109148.050	4.5	265.5083	30.02	-0.38	265256.100	3.0	302908.500	4.0
265.2447	23.00	-6.66	2311.370	3.5	40001.180	3.5	265.5111	30.02	-1.70	262446.100	3.0	300098.100	4.0
265.2475	13.00	-1.62	0.000	0.0	37689.413	4.5	265.5138	26.00	-2.46	11976.239	4.0	49627.861	4.0
265.2500	25.01	-1.64	32856.950	3.0	70546.020	4.0	265.5143	9.02	-2.29	390080.300	1.5	427731.850	2.5
265.2538	23.00	-0.64	2311.370	3.5	39999.890	2.5	265.5152	26.01	-3.08	31999.120	3.5	69650.540	2.5
265.2564	26.01	-1.08	26352.800	4.5	64040.960	3.5	265.5180	75.00	-0.79	13711.778	0.0	51374.008	0.0
265.2595	10.01	-1.58	280473.580	1.5	318161.290	2.5	265.5190	76.00	-0.25	12905.203	0.0	50567.291	0.0
265.2600	51.00	0.19	18309.257	0.0	56008.118	0.0	265.5196	23.00	-5.84	2311.370	3.5	39962.170	2.5
265.2610	74.00	0.31	16292.819	0.0	53991.538	0.0	265.5259	26.02	-2.46	83358.880	2.0	121008.780	3.0
265.2652	23.01	-4.98	11514.760	1.0	49201.660	2.0	265.5290	22.01	-0.47	31300.920	4.5	68950.390	3.5
265.2660	45.00	-0.45	2581.041	0.0	40279.050	0.0	265.5305	22.01	-3.39	9975.920	1.5	47625.170	2.5
265.2680	23.03	-1.58	226796.300	2.0	264482.800	2.0	265.5344	28.01	-0.50	57080.550	3.5	94729.250	2.5
265.2725	24.01	-1.25	51789.210	3.5	89475.080	2.5	265.5374	24.01	-2.50	49006.150	1.5	86654.430	2.5
265.2742	24.01	-0.63	49006.150	1.5	86691.770	2.5	265.5374	26.01	-2.47	42237.050	3.5	79885.320	2.5
265.2755	24.01	-1.25	51584.440	1.5	89269.880	4.5	265.5383	24.01	-0.86	49706.470	2.5	87354.620	1.5
265.2781	26.02	-2.65	82494.880	1.0	120179.950	0.0	265.5383	20.02	-1.32	290934.300	0.0	328582.450	1.0
265.2807	27.01	-1.70	27469.200	5.0	65153.900	4.0	265.5414	24.00	-4.21	24282.340	4.0	61930.050	3.0
265.2860	72.01	0.15	41215.993	0.0	78911.160	0.0	265.5422	23.03	0.30	218100.000	4.0	255747.600	3.0
265.2877	25.02	-4.78	138234.790	1.5	175918.500	5.5	265.5464	16.05	0.29	546032.000	2.5	583679.000	1.5
265.2910	75.00	-0.23	14921.641	0.0	52616.097	0.0	265.5466	24.00	-4.26	20520.920	3.0	58167.890	4.0
265.2940	41.00	0.05	8711.012	0.0	46405.042	0.0	265.5513	26.02	-2.33	181825.670	4.0	219471.970	4.0
265.2976	22.00	-2.83	170.132	3.0	37852.434	4.0	265.5520	14.02	-0.05	204828.060	3.0	242474.270	4.0
265.2977	9.02	-1.75	427731.850	2.5	465414.140	2.5	265.5530	28.01	-4.28	100475.820	3.		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
265.6080	41.01	-1.14	80.658	0.0	37730.126	0.0	265.8600	76.00	-.37	5081.4424	0.0	42695.206	0.0
265.6102	26.01	-1.44	60807.280	4.5	98445.240	4.5	265.8628	30.02	-.81	262495.900	4.0	300098.100	4.0
265.6110	70.01	-1.75	28633.420	0.0	66282.463	0.0	265.8635	9.03	-1.64	538854.100	4.0	576456.200	3.0
265.6120	22.01	-2.25	31207.440	2.5	68845.140	2.5	265.8660	90.01	-1.14	0.0000	0.0	37612.933	0.0
265.6124	23.01	-1.56	30267.460	2.0	67905.100	3.0	265.8677	17.01	-1.55	147053.700	2.0	184655.200	3.0
265.6142	26.00	-1.29	19390.165	6.0	57027.560	7.0	265.8690	40.00	-.36	4113.534	0.0	41726.042	0.0
265.6168	25.01	-1.16	36274.290	2.0	73911.310	1.0	265.8753	22.01	-4.69	10024.740	2.5	47625.170	2.5
265.6170	18.02	-2.26	231341.800	2.0	268978.800	1.0	265.8805	25.02	-3.23	94697.850	3.5	132297.550	2.5
265.6176	30.02	-1.48	262446.100	3.0	300083.000	3.0	265.8860	73.01	-.38	6775.232	0.0	44385.336	0.0
265.6223	23.00	-1.77	323.420	3.5	37959.660	2.5	265.8875	23.01	-.57	30306.400	3.0	67905.100	3.0
265.6232	22.01	-3.16	29968.080	4.5	67604.200	3.5	265.8880	41.01	-.20	8227.067	0.0	45836.888	0.0
265.6297	17.01	-1.66	127726.900	1.0	165362.100	0.0	265.8886	8.02	-4.29	294221.650	3.0	331820.200	3.0
265.6318	22.00	-5.88	6598.749	2.0	44233.650	3.0	265.8906	24.01	-1.78	32355.940	3.5	69954.200	2.5
265.6325	25.02	-3.71	138635.460	2.5	176270.250	2.5	265.8932	23.02	-.56	100001.300	2.5	137599.200	3.5
265.6328	25.01	-.70	48317.850	4.0	85952.600	3.0	265.8963	23.01	-1.22	14556.090	4.0	52153.550	5.0
265.6400	10.01	-2.38	281171.380	2.5	318805.100	2.5	265.8991	23.01	-1.06	14655.630	5.0	52252.700	6.0
265.6415	21.01	-2.39	27602.320	3.0	65235.830	4.0	265.9010	45.00	-1.69	1451.835	0.0	39059.817	0.0
265.6460	10.01	-3.08	281171.380	2.5	318804.260	1.5	265.9020	75.00	-.56	14518.354	0.0	52126.194	0.0
265.6465	22.00	-6.53	6742.757	4.0	44375.570	5.0	265.9063	26.01	-2.21	26352.800	4.5	63948.840	4.5
265.6489	23.01	-4.90	13490.840	2.0	51123.310	2.0	265.9067	26.01	-1.74	66012.830	4.5	103608.020	4.5
265.6490	42.00	-.58	11050.080	0.0	48693.738	0.0	265.9092	25.01	-.17	44521.520	4.0	82117.160	5.0
265.6520	24.00	-6.12	7593.160	2.0	45225.200	2.0	265.9142	23.01	-4.14	13490.840	2.0	51085.770	3.0
265.6540	74.00	-.02	2903.671	0.0	40546.620	0.0	265.9260	70.01	-.98	28633.420	0.0	66237.866	0.0
265.6563	7.01	-3.75	188857.370	2.0	226488.790	3.0	265.9276	25.01	-.76	44138.960	1.0	81732.000	1.0
265.6609	24.00	-3.81	21856.940	3.0	59487.710	4.0	265.9346	26.01	-3.07	22810.330	3.5	60402.380	2.5
265.6610	73.00	-.18	0.0000	0.0	37641.957	0.0	265.9378	15.00	-4.89	18747.950	1.5	56339.540	2.5
265.6641	25.02	-3.56	138635.460	2.5	176265.780	1.5	265.9404	24.01	-2.76	31168.780	3.5	68760.000	3.5
265.6644	27.01	-.53	47537.100	2.0	85167.380	3.0	265.9410	73.01	-.28	2581.041	0.0	40183.366	0.0
265.6652	24.00	-2.90	24299.890	2.0	61930.050	3.0	265.9450	78.00	-.06	0.0000	0.0	37601.760	0.0
265.6657	30.02	-2.10	262495.900	4.0	300126.000	4.0	265.9453	22.01	-2.41	31490.820	3.5	69081.350	4.5
265.6664	30.02	-1.87	262446.100	3.0	300076.100	2.0	265.9464	24.01	-.52	32836.840	3.5	70427.220	3.5
265.6690	44.00	-.90	8711.012	0.0	46351.836	0.0	265.9495	26.02	-3.00	181825.670	4.0	219415.610	5.0
265.6762	24.02	-2.47	120699.700	3.0	158328.300	2.0	265.9496	28.01	-.00	70778.120	3.5	108368.050	2.5
265.6793	26.00	-1.73	11976.239	4.0	49604.402	5.0	265.9576	9.02	-1.87	426733.040	2.5	464321.840	2.5
265.6810	77.00	-.51	10485.478	0.0	48124.602	0.0	265.9585	24.01	-2.92	49006.150	1.5	86594.820	1.5
265.6815	29.01	-4.24	85388.770	2.0	123016.630	3.0	265.9604	23.01	-.60	17910.980	4.0	55499.380	5.0
265.6840	30.02	-.32	262495.900	4.0	300123.400	5.0	265.9610	26.02	-2.14	83237.860	3.0	120826.170	2.0
265.6856	7.01	-2.48	188857.370	2.0	226484.640	2.0	265.9620	44.00	-.42	7420.492	0.0	45019.848	0.0
265.6868	23.00	-5.63	2220.130	2.5	39847.240	1.5	265.9639	30.02	-.67	262520.200	2.0	300108.100	3.0
265.6875	23.03	-.13	217836.300	3.0	255463.300	2.0	265.9696	30.02	-1.68	262495.900	4.0	300083.000	3.0
265.6882	30.02	-3.90	258075.700	3.0	295702.600	4.0	265.9741	23.01	-1.85	30318.630	4.0	67905.100	3.0
265.6925	6.00	-1.40	82251.710	0.0	119878.000	1.0	265.9745	24.01	-1.58	39684.000	3.5	77270.400	4.5
265.6938	24.00	-3.27	24303.940	3.0	61930.050	3.0	265.9758	23.01	-3.72	16340.970	3.0	53927.190	3.0
265.6954	26.00	-3.69	12560.933	3.0	50186.814	2.0	265.9779	14.01	-.56	84004.520	1.5	121590.450	1.5
265.6980	41.00	-.40	9275.615	0.0	46912.330	0.0	265.9790	75.00	-.17	26213.694	0.0	63810.647	0.0
265.6994	7.01	-1.33	188857.370	2.0	226432.680	3.0	265.9830	76.00	-.34	8630.355	0.0	46226.743	0.0
265.7022	10.02	-3.65	398986.640	2.0	436611.560	3.0	265.9868	24.00	-2.86	25177.390	4.0	62762.060	4.0
265.7071	23.00	-1.95	24802.250	3.5	62426.480	3.5	265.9870	31.00	-1.06	0.0000	0.0	37595.822	0.0
265.7086	24.01	-.67	31219.490	4.5	68843.510	3.5	265.9878	25.01	-4.29	70517.720	3.0	108102.250	3.0
265.7090	82.00	-2.28	7743.122	0.0	45378.279	0.0	265.9932	26.02	-4.12	142047.000	4.0	179630.770	4.0
265.7184	26.01	-.35	62065.570	3.5	99688.200	3.5	265.9949	25.01	-1.19	43696.190	3.0	81279.710	4.0
265.7188	22.00	-3.62	0.0000	2.0	37622.573	3.0	265.9986	25.03	-1.92	137853.000	4.0	175436.000	3.0
265.7252	25.00	-2.30	27201.540	2.5	64823.210	2.5	266.0017	24.00	-.95	24093.160	2.0	61675.720	2.0
265.7275	23.01	-3.32	2808.760	3.0	40430.100	4.0	266.0036	25.03	-3.16	152700.500	4.0	190282.800	3.0
265.7289	23.01	-1.41	14461.730	3.0	52032.880	4.0	266.0040	41.01	-.08	10808.108	0.0	48401.528	0.0
265.7300	3.01	-1.26	559501.000	0.0	597133.183	0.0	266.0154	23.01	-3.98	13542.680	3.0	51123.310	2.0
265.7300	73.00	-1.13	3871.561	0.0	41503.744	0.0	266.0155	26.01	-.92	61512.670	4.5	99093.290	5.5
265.7377	23.03	-.66	255146.800	2.0	292766.700	2.0	266.0182	22.01	-6.64	4628.610	2.5	42208.840	2.5
265.7380	74.00	-.39	4758.794	0.0	42339.844	0.0	266.0182	9.02	-.99	418188.480	5.5	455768.720	5.5
265.7448	28.01	-4.50	67880.160	2.5	105490.050	3.5	266.0185	22.01	-2.91	30240.680	5.5	67820.870	4.5
265.7490	26.00	-3.61	12968.552	2.0	50586.857	3.0	266.0224	25.01	-2.83	53017.160	1.0	90596.800	2.0
265.7500	72.01	-1.01	15002.299	0.0	52631.650	0.0	266.0231	18.02	-1.44	187823.050	2.0	225402.590	3.0
265.7533	25.00	-2.95	17568.480	1.5	55186.170	2.5	266.0236	26.01	-.86	62244.570	1.5	99824.040	2.5
265.7620	41.00	-.02	2742.356	0.0	40370.008	0.0	266.0250	26.01	-.21	60989.480	4.5	98568.750	3.5
265.7710	77.00	-.89	11775.998	0.0	49402.376	0.0	266.0319	25.01	-.61	44521.520	4.0	82099.820	4.0
265.7711	27.00	-2.32	14399.280	4.5	52014.450	1.5	266.0386	13.00	-1.32	112.061	1.5	37689.413	5.5
265.7712	23.00	-3.13	137.380	2.5	37752.540	2.5	266.0395	25.01	-.95	52373.180	3.0	89950.400	3.0
265.7789	23.00	-6.26	2424.890	4.5	40038.950	4.5	266.0398	26.00	-1.58	7985.783	2.0	45562.959	3.0
265.7800	71.01	-.33	12340.601	0.0	49965.704	0.0	266.0461	23.00	-6.81	2424.890	4.5	40001.180	3.5
265.7815	30.02	-1.04	265256.100	3.0	302869.800	3.0	266.0519	7.01	-1.96	188909.170	1.0	226484.640	2.0
265.7840	72.01	-.61	4839.451	0.0	42463.988	0.0	266.0520	74.00	-.12	19115.832	0.0	56702.469	0.0
265.7844	26.01	-1.34	58666.360	3.5	96279.650	2.5	266.0538	25.00	-3.05	27248.000	1.5	64823.210	2.5
265.7898	25.00	-2.69	18531.640	3.5	56144.160	3.5	266.0580	42.01	-.84	11937.313	0.0	49523.103	0.0
265.7916	26.01	-1.71	30388.550	4.5	68000.820	4.5	266.0619	25.01	-1.08	44138.960	1.0	81713.020	0.0
265.7921	30.02	-2.56	262495.900	4.0	300108.100	3.0	266.0637	22.00	-2.16	170.132	3.0	37743.933	3.0
265.7929	27.00	-1.85	15184.040	2.5	52796.130	2.5	266.0711	24.01	-2.86	32854.460	4.5	70427.220	3.5
265.7940	26.01	-.75	60956.820	3.5	98568.750	3.5	266.0719	22.00	-5.07	6661.003	3.0	44233.650	3.0
265.7963	23.01	-2.63	13511.710	1.0	51123.310	2.0	266.0754	12.01	-1.78	71490.190	2.5	109062.340	2.5
265.7992	23.01	-3.33	16533.0										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
266.1537	17.02	-.26	204124.000	1.5	241685.100	2.5	266.4320	74.00	-.63	6129.972	0.0	43663.001	0.0
266.1560	74.00	-.18	13227.833	0.0	50799.783	0.0	266.4352	9.02	-.23	390210.430	3.5	427731.850	2.5
266.1583	24.01	-.67	30307.600	1.5	67868.050	2.5	266.4434	24.00	-4.49	23163.270	0.0	60683.530	1.0
266.1599	22.01	-2.52	31207.440	2.5	68767.660	1.5	266.4442	9.02	-1.29	418248.560	1.5	455768.720	.5
266.1608	30.02	-3.54	258075.700	3.0	295635.800	3.0	266.4448	24.00	-.92	7593.160	2.0	45113.220	3.0
266.1608	30.02	-4.76	258075.700	3.0	295635.800	2.0	266.4476	24.00	-6.01	8095.210	3.0	45614.880	4.0
266.1637	28.01	-3.53	67880.160	2.5	105439.850	1.5	266.4477	25.01	-.68	44899.820	3.0	82419.480	3.0
266.1650	30.02	-3.03	220006.600	1.0	257566.100	1.0	266.4518	10.01	-3.91	280262.330	3.5	317781.420	2.5
266.1679	23.03	-1.40	227712.500	4.0	265271.600	3.0	266.4536	28.01	-4.52	99154.810	4.5	136673.640	4.5
266.1714	27.00	-2.82	3482.820	4.5	41041.430	3.5	266.4552	29.01	-4.85	111124.000	1.0	148642.600	2.0
266.1723	24.01	-1.14	12148.000	2.5	49706.470	2.5	266.4661	26.01	.36	27314.930	3.5	64832.000	4.5
266.1784	24.01	-1.73	32838.840	3.5	70394.460	4.5	266.4665	10.03	-4.73	605417.000	3.5	642934.000	3.5
266.1787	26.01	-.13	60887.660	5.5	98445.240	4.5	266.4760	44.00	-.65	1129.205	0.0	38456.037	0.0
266.1860	41.00	-.63	2742.356	0.0	40310.072	0.0	266.4790	77.00	-.19	0.000	0.0	37528.490	0.0
266.1870	30.02	-1.71	265313.400	2.0	302869.800	3.0	266.4810	75.00	-.47	16212.162	0.0	53738.200	0.0
266.1880	72.01	-.32	6291.287	0.0	43858.721	0.0	266.4819	24.00	-.75	23163.270	0.0	60678.120	1.0
266.1890	73.00	-.58	5565.369	0.0	43132.661	0.0	266.4828	25.01	-4.48	45336.900	4.0	81051.620	3.0
266.1906	30.02	-.98	262520.200	2.0	300076.100	2.0	266.4851	30.02	-4.51	258171.200	5.0	295685.600	4.0
266.1930	76.00	-.45	12663.231	0.0	50229.959	0.0	266.4895	18.01	-3.55	192554.070	2.5	192556.840	2.5
266.1968	22.00	-1.13	0.000	2.0	37555.021	3.0	266.4907	30.02	-2.15	265313.400	2.0	302827.000	2.0
266.1971	25.01	-2.07	32787.600	4.0	70342.580	3.0	266.4960	74.00	-.98	1613.150	0.0	39137.165	0.0
266.1980	77.00	-.03	2823.013	0.0	40389.035	0.0	266.4962	10.01	-3.17	280268.960	2.5	317781.790	1.5
266.1989	25.01	-2.26	79558.380	4.0	117113.100	4.0	266.4988	10.01	-3.27	280268.960	2.5	317781.420	2.5
266.1989	25.01	-3.08	79558.380	4.0	117113.100	3.0	266.5006	28.01	-3.04	68156.570	1.5	105648.780	2.5
266.1996	25.01	-1.83	79558.380	4.0	117113.000	5.0	266.5020	70.01	.03	31375.775	0.0	68898.946	0.0
266.2043	24.00	-4.59	23512.000	1.0	61065.960	1.0	266.5064	25.00	-1.10	27201.540	2.5	64712.940	2.5
266.2057	26.00	-1.21	7728.058	3.0	45281.816	2.0	266.5095	25.01	-4.64	36274.290	2.0	73785.250	2.0
266.2062	27.01	-2.25	24886.500	2.0	62440.200	1.0	266.5100	42.00	-.08	11775.998	0.0	49298.042	0.0
266.2069	24.02	-3.55	116532.100	3.0	154085.700	3.0	266.5136	27.00	-3.58	8460.810	2.5	45971.190	3.5
266.2087	21.00	-3.92	0.000	1.5	37553.340	2.5	266.5178	25.01	-2.04	33147.390	5.0	70657.180	5.0
266.2118	30.02	-2.70	262495.900	4.0	300048.800	5.0	266.5192	28.02	-3.85	97841.400	2.0	135351.000	2.0
266.2160	24.01	-1.72	30307.600	1.5	67859.910	.5	266.5196	25.01	-.80	51553.060	5.0	89062.600	5.0
266.2161	30.02	-3.64	265256.100	3.0	302808.400	4.0	266.5220	27.01	-2.67	13404.600	1.0	50913.800	2.0
266.2267	17.02	.08	204021.600	.5	241572.400	1.5	266.5250	28.01	-1.49	29070.930	1.5	66579.710	1.5
266.2291	26.01	-2.43	42334.860	2.5	79885.320	2.5	266.5250	41.01	.62	10162.848	0.0	47682.780	0.0
266.2337	26.02	-1.98	84369.920	2.0	121919.740	3.0	266.5269	23.01	-2.93	2687.010	2.0	40195.520	3.0
266.2340	90.01	-.49	8549.697	0.0	46110.640	0.0	266.5319	28.01	-3.88	99040.750	1.5	136548.550	2.5
266.2411	21.00	-4.49	168.340	2.5	37717.110	3.5	266.5332	26.02	-1.89	97041.380	3.0	134549.000	3.0
266.2457	27.01	-.41	47039.000	3.0	84587.120	4.0	266.5338	26.01	-.88	62065.570	3.5	99573.110	4.5
266.2500	24.01	-3.84	32355.940	3.5	69903.460	3.5	266.5355	30.02	-4.78	258178.300	4.0	295685.600	4.0
266.2536	25.01	-.51	36364.300	1.0	73911.310	1.0	266.5367	10.01	-3.41	276511.820	.5	314018.940	.5
266.2542	26.01	-1.55	62945.120	3.5	100492.040	3.5	266.5404	25.00	-1.42	24788.050	2.5	62294.660	3.5
266.2550	76.00	.12	15324.929	0.0	52882.909	0.0	266.5405	25.00	-3.49	25281.040	2.5	62787.630	1.5
266.2563	26.01	-.59	47626.140	.5	85172.770	.5	266.5410	25.01	-2.87	36274.290	2.0	73780.810	3.0
266.2625	23.02	-4.90	109854.870	3.5	147400.620	4.5	266.5444	26.01	-2.30	61587.240	5.5	99093.290	5.5
266.2630	77.00	-.20	7017.204	0.0	44574.056	0.0	266.5456	16.02	-.15	173191.730	2.0	210697.600	2.0
266.2636	27.01	-2.19	28111.900	2.0	65657.500	1.0	266.5470	23.01	-3.09	16421.510	4.0	53927.190	3.0
266.2660	25.00	-4.18	30419.610	2.5	67964.870	2.5	266.5484	23.01	-2.51	30641.710	3.0	68147.200	4.0
266.2708	24.01	-1.10	32854.460	4.5	70399.040	5.5	266.5516	17.02	.44	204541.200	2.5	242046.200	3.5
266.2749	25.01	-3.47	79569.100	5.0	117113.100	4.0	266.5553	26.01	-1.12	60625.470	5.5	98129.980	6.5
266.2756	25.01	-2.43	79569.100	5.0	117113.000	5.0	266.5565	24.01	.59	51669.750	2.5	89174.100	3.5
266.2764	25.01	-1.66	79569.100	5.0	117112.900	6.0	266.5570	81.00	-.99	7743.122	0.0	45258.550	0.0
266.2785	25.01	-.96	51553.060	5.0	89096.560	4.0	266.5600	73.01	-.07	967.890	0.0	38482.896	0.0
266.2814	23.01	-2.53	13542.680	3.0	51085.770	3.0	266.5688	28.01	-4.32	100619.260	4.5	138121.880	4.5
266.2840	74.00	-.28	3306.958	0.0	40860.848	0.0	266.5703	17.01	-1.26	147125.700	3.0	184628.100	4.0
266.2890	27.00	-3.22	8460.810	2.5	46002.830	2.5	266.5709	9.02	-2.16	426989.570	3.5	464491.890	3.5
266.2912	26.02	-4.39	87901.870	3.0	125443.580	4.0	266.5739	24.02	-3.92	116391.600	2.0	153893.500	2.0
266.2997	24.01	-3.39	31219.490	4.5	68760.000	3.5	266.5746	8.02	-.48	338565.870	1.0	376067.660	2.0
266.3003	24.01	-4.63	38269.670	3.5	75810.100	4.5	266.5764	26.01	-2.09	62322.500	3.5	99824.040	2.5
266.3033	24.01	-1.07	32854.460	4.5	70394.460	4.5	266.5770	74.00	-.63	6129.972	0.0	43642.586	0.0
266.3093	25.00	-1.93	30425.710	1.5	67964.870	2.5	266.5772	22.00	-7.58	6661.003	3.0	44162.440	4.0
266.3160	82.00	.31	10566.135	0.0	48115.512	0.0	266.5774	23.01	-1.95	34946.550	4.0	72447.960	3.0
266.3189	17.02	-.03	204021.600	.5	241559.400	.5	266.5845	28.01	-2.06	29070.930	1.5	66571.340	2.5
266.3216	28.01	-2.06	54262.630	3.5	91800.050	4.5	266.5850	24.01	-1.76	31083.110	1.5	68583.440	2.5
266.3220	76.00	-.06	12663.231	0.0	50211.762	0.0	266.5890	90.01	-1.29	6210.629	0.0	43721.554	0.0
266.3235	25.00	-2.78	30354.210	3.5	67891.360	3.5	266.5945	28.01	-.14	71770.830	2.5	109269.830	1.5
266.3236	24.01	-.81	53566.220	3.5	91103.360	4.5	266.5962	23.00	-1.59	0.000	1.5	37498.760	2.5
266.3249	23.01	.97	35483.390	6.0	73020.350	7.0	266.5970	72.01	0.00	12824.546	0.0	50334.345	0.0
266.3255	28.01	-3.48	77332.470	2.5	114869.350	1.5	266.5983	24.01	-3.22	47227.500	3.5	84725.960	3.5
266.3275	26.01	-.62	62151.610	2.5	99688.200	3.5	266.5989	25.00	-1.75	24802.250	3.5	62300.630	4.5
266.3289	24.01	.71	51789.210	3.5	89325.600	4.5	266.5998	24.01	-.01	12148.000	2.5	49646.250	3.5
266.3310	77.00	-.84	7017.204	0.0	44564.467	0.0	266.6022	23.01	-3.70	14655.630	5.0	52153.550	5.0
266.3427	24.01	-.14	12303.980	3.5	49838.430	4.5	266.6080	28.02	-2.53	82172.900	3.0	119670.000	2.0
266.3514	23.01	-1.18	30613.970	4.0	68147.200	4.0	266.6104	25.01	-2.28	33248.320	4.0	70745.080	3.0
266.3530	30.02	-2.32	262520.200	2.0	300053.200	2.0	266.6158	25.01	-3.06	53805.800	4.0	91301.800	5.0
266.3530	27.01	-.80	9812.700	4.0	47345.700	5.0	266.6165	28.01	-4.52	94729.250	2.5	132225.150	1.5
266.3542	25.02	-3.40	139944.400	3.5	177477.230	2.5	266.6165	26.02	-3.64	147281.690	1.0	184777.600	2.0
266.3551	17.01	-4.02	147125.700	3.0	184658.400	2.0	266.6186	26.02	-3.94	147281.690	1.0	184777.300	1.0
266.3558	22.00	-5.30	6842.964										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
266.6750	42.00	-4.5	11775.998	0.0	49274.826	0.0	266.9207	28.01	-1.64	56075.260	2.5	93528.440	3.5
266.6769	25.01	.63	44315.170	6.0	81802.580	6.0	266.9244	26.02	-3.31	147326.850	4.0	184779.500	4.0
266.6771	26.02	-2.73	82494.880	1.0	119982.260	1.0	266.9259	22.00	-3.40	170.132	3.0	37622.573	3.0
266.6776	26.01	-4.7	60807.280	4.5	98294.600	5.5	266.9261	9.02	-1.46	430374.750	2.5	467827.160	1.5
266.6778	26.02	-2.98	147291.210	2.0	184778.500	3.0	266.9269	22.01	-4.88	29544.370	2.5	66996.670	3.5
266.6793	23.01	-.33	35193.130	5.0	72680.200	5.0	266.9300	74.00	.23	13227.833	0.0	50690.838	0.0
266.6810	28.01	-3.79	98467.250	3.5	135954.090	3.5	266.9316	26.02	-4.48	147326.850	4.0	184778.500	3.0
266.6813	26.00	-.72	6928.266	5.0	44415.057	4.0	266.9329	25.01	-.96	43696.190	3.0	81147.650	2.0
266.6835	21.00	-2.84	0.000	1.5	37486.480	1.5	266.9342	28.01	-3.09	75721.680	5.5	113172.960	4.5
266.6842	26.02	-3.36	147291.210	2.0	184777.600	2.0	266.9358	24.00	-2.66	7750.780	0.0	45201.840	1.0
266.6863	26.02	-4.36	147291.210	2.0	184777.300	1.0	266.9419	26.02	-1.88	144968.500	4.0	182418.700	4.0
266.6896	25.01	-.33	32856.950	3.0	70342.580	3.0	266.9460	77.00	-.21	15970.189	0.0	53430.949	0.0
266.6910	26.01	-2.50	25787.600	1.5	63273.030	2.5	266.9483	23.03	-.24	254468.800	2.0	291918.100	2.0
266.6912	10.01	-1.61	280700.770	3.5	318186.170	4.5	266.9490	40.01	-.42	5726.684	0.0	43187.023	0.0
266.6943	26.00	-8.93	12560.933	3.0	50045.900	2.0	266.9493	26.00	-.47	19621.004	5.0	57070.171	6.0
266.6966	22.00	-2.66	170.132	3.0	37654.770	2.0	266.9530	76.00	-.14	10082.190	0.0	47541.968	0.0
266.6967	26.00	-1.02	11976.239	4.0	49460.876	5.0	266.9540	17.02	-3.90	179076.100	1.5	216524.600	2.5
266.6976	30.02	-3.06	220006.600	1.0	257491.100	0.0	266.9547	17.02	-.13	204124.000	1.5	241572.400	1.5
266.6976	13.01	-3.20	110087.500	2.0	147572.000	1.0	266.9552	12.00	-1.93	21870.464	1.0	59318.793	1.0
266.7000	73.01	-.79	967.890	0.0	38463.203	0.0	266.9553	12.00	-1.63	21870.464	1.0	59318.775	2.0
266.7013	26.01	-2.64	42401.330	1.5	79885.320	2.5	266.9579	28.01	-3.20	100078.780	1.5	137526.730	2.5
266.7030	25.01	.19	32858.840	2.0	70342.580	3.0	266.9580	73.01	1.61	24761.859	0.0	62220.935	0.0
266.7053	25.01	-1.06	36427.890	0.0	73911.310	1.0	266.9589	26.02	-4.93	142312.900	3.0	179760.720	3.0
266.7069	26.00	-3.00	19621.004	5.0	57104.207	5.0	266.9595	22.00	-.99	170.132	3.0	37617.868	4.0
266.7125	25.00	-1.78	27201.540	2.5	64683.950	1.5	266.9600	25.00	-3.38	27201.540	2.5	64649.200	3.5
266.7130	75.00	-.42	17180.052	0.0	54673.538	0.0	266.9606	25.01	-2.77	44745.460	2.0	82193.040	2.0
266.7147	30.02	-3.90	258171.200	5.0	295653.300	5.0	266.9642	24.01	-3.23	38269.670	3.5	75716.740	3.5
266.7147	30.02	-2.09	258171.200	5.0	295653.300	6.0	266.9655	25.02	-3.00	94850.660	1.5	132297.550	2.5
266.7150	41.01	-.04	8227.067	0.0	45720.271	0.0	266.9718	30.02	-4.59	258239.600	4.0	295685.600	3.0
266.7170	73.00	-1.01	5968.656	0.0	43461.579	0.0	266.9727	24.01	-2.83	39824.520	4.5	71270.400	4.5
266.7219	22.00	-5.10	6598.749	2.0	44079.840	2.0	266.9766	24.01	-3.67	30143.720	5.5	67589.060	6.5
266.7224	26.01	-.22	47389.820	1.5	84870.840	2.5	266.9766	27.01	-.04	48150.700	3.0	85596.030	2.0
266.7276	25.00	-3.24	25281.040	2.5	62761.330	2.5	266.9770	74.00	-1.59	3306.958	0.0	40763.368	0.0
266.7282	24.01	-2.46	32836.840	3.5	70317.040	2.5	266.9784	26.02	-4.20	142312.900	3.0	179757.980	4.0
266.7300	41.01	-.61	0.000	0.0	37491.096	0.0	266.9850	26.02	-2.29	144968.500	4.0	182412.650	4.0
266.7329	10.01	-2.88	280700.770	3.5	318180.310	2.5	266.9864	6.01	-2.66	145549.270	1.5	182993.230	1.5
266.7341	10.01	-2.72	246415.040	1.5	283894.410	.5	266.9864	6.01	-1.96	145549.270	1.5	182993.230	.5
266.7354	17.01	-1.64	131767.400	0.0	169246.600	1.0	266.9870	27.00	-3.90	8460.810	2.5	45904.680	1.5
266.7368	24.02	-3.84	70980.200	1.0	108459.200	2.0	266.9907	27.01	-1.36	27585.300	1.0	65028.650	1.0
266.7385	29.01	-3.86	85388.770	2.0	122867.530	1.0	266.9910	77.00	-.42	4032.876	0.0	41487.322	0.0
266.7396	17.01	-.94	131768.000	2.0	169246.600	1.0	266.9929	26.01	-.56	49101.090	.5	86544.140	1.5
266.7526	23.01	-1.55	13609.000	4.0	51085.770	3.0	266.9950	25.00	-2.46	23296.670	3.5	60739.420	3.5
266.7530	26.01	-1.63	63273.030	2.5	100749.750	2.5	266.9961	27.01	-3.43	10708.100	3.0	48150.700	3.0
266.7549	28.01	-4.08	99040.750	1.5	136517.200	.5	266.9966	6.01	-1.71	145550.700	2.5	182993.230	1.5
266.7567	26.02	-3.78	144968.500	4.0	182444.700	3.0	266.9996	26.02	-3.39	145038.610	3.0	182480.720	2.0
266.7630	26.01	-2.36	61093.440	2.5	98568.750	3.5	266.9999	22.01	-3.29	10024.740	2.5	47466.800	3.5
266.7701	25.01	-2.40	31022.050	0.0	68496.370	1.0	267.0043	25.01	-2.71	48317.850	4.0	85759.300	4.0
266.7721	21.01	-.09	39114.440	1.0	76588.480	2.0	267.0066	24.01	-.20	30864.610	2.5	68305.730	1.5
266.7753	25.00	-3.03	25287.740	3.5	62761.330	2.5	267.0114	28.01	-4.23	100078.780	1.5	137519.230	2.5
266.7757	26.02	-2.60	147305.970	3.0	184779.500	4.0	267.0117	26.02	-2.99	144968.500	4.0	182408.910	3.0
266.7760	41.01	.56	10485.478	0.0	47970.109	0.0	267.0129	22.01	-4.85	4628.610	2.5	42068.850	1.5
266.7791	28.01	-3.32	77736.790	4.5	115209.850	3.5	267.0139	29.01	-4.47	113302.800	4.0	150742.900	3.0
266.7800	40.01	-.56	241.973	0.0	37726.042	0.0	267.0156	14.01	-1.27	84004.520	1.5	121444.380	.5
266.7824	23.03	-1.36	217990.700	1.0	255463.300	2.0	267.0225	24.01	-.39	30150.160	6.5	67589.060	6.5
266.7828	26.02	-3.15	147305.970	3.0	184778.500	3.0	267.0233	25.00	-2.60	18705.370	4.5	56144.160	3.5
266.7842	25.01	-.46	44521.520	4.0	81993.850	4.0	267.0237	18.01	-3.20	158428.030	.5	195866.760	1.5
266.7857	24.01	-1.12	32844.920	1.5	70317.040	2.5	267.0240	75.00	-.79	11534.025	0.0	48983.842	0.0
266.7872	25.01	-.93	43850.420	2.0	81322.330	1.0	267.0243	23.01	-3.08	17910.980	4.0	55349.630	3.0
266.7884	25.00	-1.47	30419.610	2.5	67891.360	3.5	267.0320	28.01	-1.79	29593.460	.5	67031.020	.5
266.7887	10.01	-1.47	281332.550	.5	318804.260	1.5	267.0320	42.00	-.43	10646.793	0.0	48095.488	0.0
266.7890	24.01	.46	51584.440	1.5	89056.100	2.5	267.0382	26.01	-1.05	38164.240	2.5	75600.930	3.5
266.7892	26.02	-4.17	147305.970	3.0	184777.600	2.0	267.0435	25.00	-1.05	27248.000	1.5	64683.950	1.5
266.7902	24.02	-4.28	71321.800	3.0	108793.300	3.0	267.0474	17.02	-1.05	204124.000	1.5	241559.400	.5
266.7914	26.00	-2.70	704.003	2.0	38175.332	3.0	267.0482	29.01	-4.67	111124.000	1.0	148559.300	2.0
266.7951	24.00	-8.55	8095.210	3.0	45566.020	3.0	267.0562	24.00	-1.01	24093.160	2.0	61527.340	1.0
266.7970	44.00	-.43	8952.985	0.0	46434.666	0.0	267.0565	24.01	-4.80	33418.110	2.5	70852.240	3.5
266.7984	23.01	-.68	30267.460	2.0	67737.800	2.0	267.0596	24.01	-1.57	42986.730	.5	80420.430	2.5
266.8070	73.00	-.43	5565.369	0.0	43045.645	0.0	267.0596	10.01	-2.02	280768.520	.5	318202.210	1.5
266.8124	12.00	-1.81	21850.405	0.0	59318.793	1.0	267.0640	10.01	-1.29	280768.520	.5	318201.600	.5
266.8186	9.02	-.39	390077.800	2.5	427545.310	1.5	267.0640	51.00	-.49	8469.040	0.0	45913.248	0.0
266.8201	26.02	-2.48	83358.880	2.0	120826.170	2.0	267.0751	27.01	-1.58	27585.300	1.0	65016.830	2.0
266.8244	25.01	-2.80	33278.390	3.0	70745.080	3.0	267.0760	23.01	-1.77	30306.400	3.0	67737.800	2.0
266.8280	72.00	-.61	5565.369	0.0	43042.695	0.0	267.0790	75.00	-.37	14115.066	0.0	51557.171	0.0
266.8290	41.00	-.22	2097.096	0.0	39574.282	0.0	267.0817	15.04	-.78	410631.100	2.5	448061.700	2.5
266.8304	24.01	-2.94	31117.590	2.5	68583.440	2.5	267.0817	15.04	.52	410631.100	2.5	448061.700	3.5
266.8325	22.00	-3.81	386.874	4.0	37852.434	4.0	267.0817	15.04	.37	410631.100	1.5	448061.700	2.5
266.8340	63.01	-.61	1613.150	0.0	39089.634	0.0	267.0821	22.01	-6.12	0.000	1.5	37430.550	.5
266.8364	9.02	-.89	390080.300	1.5	427545.310	1.5	267.0831	27.01	-3.42	27484.300	3.0	64914.710	2.0
266.8367	25.00	-1.25	30354.										

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
267.1830	42.01	.01	15324.929	0.0	52752.460	0.0	267.4570	78.00	-1.12	6533.259	0.0	43922.447	0.0
267.1840	77.00	-.21	5726.684	0.0	43154.075	0.0	267.4611	24.02	-2.22	57422.100	4.0	94799.600	5.0
267.1840	75.00	-.41	11695.340	0.0	49122.731	0.0	267.4624	8.02	-.26	338690.340	2.0	376067.660	2.0
267.1930	41.01	.04	725.918	0.0	38152.048	0.0	267.4633	25.03	-4.43	131462.500	5.0	168839.700	4.0
267.1936	26.01	-.10	62158.190	4.5	99573.110	4.5	267.4650	22.00	-5.80	6598.749	2.0	43975.710	1.0
267.1955	24.01	-1.06	31168.780	3.5	68583.440	2.5	267.4675	25.01	-1.21	52383.720	4.0	89760.330	5.0
267.1975	24.00	-2.38	7810.820	1.0	45225.200	2.0	267.4711	26.00	-2.34	18378.187	2.0	55754.290	2.0
267.1980	70.00	-.97	0.000	0.0	37425.430	0.0	267.4731	24.00	-3.07	24299.890	2.0	61675.720	2.0
267.2003	23.01	-.67	106.630	2.0	37520.610	3.0	267.4752	10.01	-1.08	281720.280	1.5	319095.810	2.5
267.2023	30.02	-2.15	258239.600	4.0	295653.300	5.0	267.4757	25.01	.68	48435.960	6.0	5811.430	7.0
267.2028	23.02	-2.58	49805.290	3.5	87218.920	3.5	267.4767	10.01	-2.90	276276.850	1.5	313652.170	1.5
267.2059	28.02	-4.82	76237.800	3.0	113651.000	2.0	267.4787	29.01	-4.47	116080.460	3.0	153455.500	4.0
267.2072	24.01	-3.81	46905.520	1.5	84318.540	1.5	267.4844	28.01	-3.97	55417.830	3.5	92792.080	3.5
267.2095	13.01	-2.53	110087.500	2.0	147500.200	3.0	267.4853	25.01	-1.53	32856.950	3.0	70231.070	2.0
267.2107	26.00	-3.14	18378.187	2.0	55790.720	3.0	267.4859	26.02	-3.52	145038.610	3.0	182412.650	4.0
267.2133	28.01	-3.49	98467.250	3.5	135879.410	3.5	267.4880	76.00	.28	10082.190	0.0	47467.045	0.0
267.2156	26.01	-.22	61156.900	3.5	98568.750	3.5	267.4895	22.01	-5.33	15257.530	4.5	52631.070	3.5
267.2191	26.02	-3.10	144968.500	4.0	182379.860	5.0	267.4934	25.01	-2.15	53805.800	4.0	91178.800	4.0
267.2192	10.01	-1.39	280768.520	.5	318179.870	1.5	267.4989	25.01	-.29	32858.840	2.0	70231.070	2.0
267.2199	14.03	-1.98	276503.670	.5	313914.920	1.5	267.5009	24.00	-2.66	28637.000	3.0	66008.950	3.0
267.2217	17.01	-1.59	12608.000	1.0	150019.000	0.0	267.5021	24.00	-3.69	24303.940	3.0	61675.720	2.0
267.2303	26.01	-2.69	26055.400	2.5	63465.190	1.5	267.5026	10.00	-4.82	134459.287	1.0	171831.000	0.0
267.2369	25.01	-2.56	33248.320	4.0	70657.180	5.0	267.5047	10.00	-4.11	134459.287	1.0	171830.700	1.0
267.2370	24.01	-3.53	31351.150	2.5	68760.000	3.5	267.5071	26.01	-3.27	23031.300	1.5	60402.380	2.5
267.2430	25.00	-4.22	23549.200	2.5	60957.210	3.5	267.5111	14.03	-2.07	254127.080	2.5	291497.600	2.5
267.2438	30.02	-2.76	258277.700	3.0	295685.600	4.0	267.5118	14.03	-.93	254127.080	2.5	291497.500	1.5
267.2438	30.02	-3.83	258277.700	3.0	295685.600	3.0	267.5127	26.02	-2.32	145038.610	3.0	182406.910	3.0
267.2458	12.00	-3.11	21911.178	2.0	59318.793	1.0	267.5130	74.00	-.49	13227.833	0.0	50609.194	0.0
267.2460	12.00	-2.10	21911.178	2.0	59318.775	2.0	267.5137	25.01	-.87	43850.420	2.0	81220.580	3.0
267.2461	12.00	-1.18	21911.178	2.0	59318.764	3.0	267.5191	23.01	-2.06	18293.870	2.0	55663.270	1.0
267.2473	30.02	-1.63	220668.300	2.0	258075.700	3.0	267.5209	9.02	-2.52	452770.850	3.5	490140.000	2.5
267.2500	73.01	.15	5565.369	0.0	42983.517	0.0	267.5219	10.00	-3.66	134459.287	1.0	171828.300	2.0
267.2506	26.01	-.22	60887.660	5.5	98294.600	5.5	267.5251	14.03	-.77	254129.030	3.5	291497.600	2.5
267.2521	25.02	-2.59	140280.800	4.5	177687.540	3.5	267.5306	15.00	-3.95	18722.650	.5	56090.450	1.5
267.2567	26.02	-3.07	145038.610	3.0	182444.700	3.0	267.5363	24.02	-1.65	120699.700	3.0	158066.700	3.0
267.2584	25.01	.30	29889.310	3.0	67295.160	4.0	267.5400	74.00	-.38	15002.299	0.0	52379.887	0.0
267.2640	25.00	-2.83	25265.740	5.5	62670.810	4.5	267.5456	26.01	-.98	62322.500	3.5	99688.200	3.5
267.2649	10.01	-4.09	280797.260	2.5	318202.210	1.5	267.5473	22.01	-5.01	15265.600	3.5	52631.070	3.5
267.2650	70.01	.15	21293.585	0.0	58709.633	0.0	267.5520	25.01	.27	44521.520	4.0	81886.330	5.0
267.2654	26.01	-3.91	32909.870	5.5	70314.740	4.5	267.5521	25.01	-.10	46903.260	2.0	84268.060	1.0
267.2691	23.02	-3.53	61777.150	1.5	99181.500	1.5	267.5541	27.00	-1.94	13795.520	2.5	51160.030	2.5
267.2824	24.01	-4.42	12303.980	3.5	49706.470	2.5	267.5576	10.01	-2.96	280797.260	2.5	318161.290	2.5
267.2840	42.01	.95	12824.546	0.0	50237.934	0.0	267.5579	26.02	-4.63	142312.900	3.0	179676.890	2.0
267.2852	25.00	-1.47	27281.850	.5	64683.950	1.5	267.5597	10.01	-1.52	280797.260	2.5	318160.990	3.5
267.2878	24.01	-4.11	38315.000	2.5	75716.740	3.5	267.5642	21.01	-3.42	26081.320	2.0	63444.430	3.0
267.2910	57.01	.25	18470.572	0.0	55882.980	0.0	267.5656	10.00	-4.34	134459.287	1.0	171822.200	1.0
267.2994	9.02	-.59	418248.560	1.5	455648.670	1.5	267.5670	90.01	-.68	8952.985	0.0	46326.802	0.0
267.3070	58.01	-.74	1371.178	0.0	38781.347	0.0	267.5677	24.01	-.46	30143.720	5.5	67506.340	5.5
267.3100	25.01	-1.10	33147.390	5.0	70546.020	4.0	267.5700	17.02	-1.56	202367.600	3.5	239729.900	2.5
267.3205	28.01	-.98	68735.980	2.5	106133.140	1.5	267.5704	24.01	-.94	40415.340	.5	77777.580	.5
267.3210	25.01	-3.31	53781.700	3.0	91178.800	4.0	267.5764	24.02	-3.28	116532.100	3.0	153893.500	2.0
267.3214	26.00	-1.84	8154.713	1.0	45551.748	1.0	267.5765	23.00	-2.55	137.380	2.5	37498.760	2.5
267.3228	23.01	-2.73	2604.820	1.0	40001.660	2.0	267.5790	7.01	-.61	189335.160	3.0	226696.200	4.0
267.3270	42.01	.67	15324.929	0.0	52732.299	0.0	267.5795	18.01	-4.75	155351.030	1.5	192712.000	1.5
267.3383	25.01	-.04	32836.400	1.0	70231.070	2.0	267.5807	23.03	-1.43	217108.000	2.0	254468.800	2.0
267.3384	21.01	-2.64	27841.170	4.0	65235.830	4.0	267.5819	10.01	-.57	306687.290	2.5	344047.920	3.5
267.3417	9.02	-4.82	427545.310	1.5	464939.500	2.5	267.5847	10.01	-1.99	306687.670	3.5	344047.920	3.5
267.3418	26.01	-1.98	66589.170	4.5	103983.350	3.5	267.5851	27.01	.09	47807.200	4.0	85167.380	3.0
267.3419	10.01	-2.75	280268.960	2.5	317663.130	1.5	267.5870	74.00	-1.30	1613.150	0.0	38984.173	0.0
267.3447	23.01	-3.70	18269.490	1.0	55663.270	1.0	267.5872	10.01	-1.49	280797.260	2.5	318157.150	3.5
267.3477	23.01	-3.86	17910.980	4.0	55304.340	4.0	267.5880	92.01	-.79	1693.808	0.0	39064.692	0.0
267.3479	22.01	-3.73	29544.370	2.5	66937.700	2.5	267.5900	73.01	.87	4355.506	0.0	41726.110	0.0
267.3480	44.00	-.25	9033.642	0.0	46438.074	0.0	267.5904	26.01	-.97	46967.470	2.5	84326.910	1.5
267.3494	24.01	-.81	39877.280	3.5	77270.400	4.5	267.5927	22.00	-5.54	0.000	2.0	37359.130	2.0
267.3496	25.02	-4.24	140294.440	3.5	177687.540	3.5	267.5940	41.01	-.32	403.288	0.0	37779.334	0.0
267.3512	28.01	-3.70	98561.220	2.5	135954.090	3.5	267.5950	79.00	-.91	0.000	0.0	37369.906	0.0
267.3570	41.01	1.28	15324.929	0.0	52728.102	0.0	267.5979	27.00	-1.55	5075.830	1.5	42434.230	2.5
267.3600	44.00	-.46	7985.094	0.0	45387.847	0.0	267.5992	21.01	-.19	39001.590	0.0	76359.810	1.0
267.3610	77.00	-.41	5726.684	0.0	43129.297	0.0	267.5996	25.01	-1.88	43696.190	3.0	81054.350	2.0
267.3612	9.02	-2.67	452748.540	2.5	490140.000	1.5	267.6000	30.02	-3.72	258277.700	3.0	295635.800	3.0
267.3612	9.02	-3.78	452748.540	2.5	490140.000	2.5	267.6000	30.02	-4.68	258277.700	3.0	295635.800	2.0
267.3644	24.00	-2.58	7810.820	1.0	45201.840	1.0	267.6038	23.01	-1.94	35193.130	5.0	72550.710	4.0
267.3669	25.00	-1.75	27248.000	1.5	64638.680	.5	267.6054	26.02	-3.46	149525.630	2.0	186882.980	3.0
267.3708	24.01	-1.48	42898.120	2.5	80288.250	1.5	267.6067	25.01	-1.52	70745.080	3.0	108102.250	3.0
267.3729	26.02	-1.07	181772.590	6.0	219162.420	6.0	267.6075	22.00	-1.56	386.874	4.0	37743.933	3.0
267.3776	24.00	-4.91	24286.540	1.0	61675.720	2.0	267.6079	29.01	-2.54	85388.770	2.0	122745.770	2.0
267.3781	27.00	-7.72	13795.520	2.5	51184.630	3.5	267.6091	25.00	-1.26	27281.850	.5	64638.680	.5
267.3782	23.02	-1.92	49327.740	2.5	86716.840	1.5	267.6110	45.00	-.90	5646.026	0		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
267.7076	17.01	-3.93	149798.300	2.0	187141.400	2.0	267.9850	42.00	.92	12259.943	0.0	49575.464	0.0
267.7100	2.00	-2.41	159856.000	0.0	197209.853	0.0	267.9897	24.01	-1.36	39684.000	3.5	76987.780	2.5
267.7107	23.00	-3.22	0.000	1.5	37342.660	2.5	267.9910	75.00	.11	22019.503	0.0	59334.189	0.0
267.7119	15.00	-3.17	18747.950	1.5	56090.450	1.5	267.9921	22.00	-.89	386.874	4.0	37690.320	5.0
267.7135	24.01	.10	12303.980	3.5	49646.250	3.5	267.9925	23.03	-.54	255463.300	2.0	292766.700	2.0
267.7150	78.00	-.89	0.000	0.0	37353.155	0.0	267.9950	25.01	.47	48333.060	5.0	85636.100	6.0
267.7180	24.01	.43	12496.790	4.5	49838.430	4.5	267.9971	24.01	-2.89	46905.520	1.5	84208.280	.5
267.7203	25.01	-1.25	44521.520	4.0	81862.840	4.0	267.9989	23.01	-3.98	11908.270	2.0	49210.780	3.0
267.7238	7.01	-2.34	189335.160	3.0	226675.990	3.0	267.9991	24.01	-2.30	49351.960	2.5	86654.430	2.5
267.7250	25.01	-.14	48333.060	5.0	85673.720	4.0	267.9998	25.01	-3.87	35004.430	3.0	72306.810	2.0
267.7280	74.00	-.40	3306.958	0.0	40658.300	0.0	268.0040	74.00	.23	16857.422	0.0	54170.298	0.0
267.7311	24.01	-.52	49351.960	2.5	86691.770	2.5	268.0060	24.01	-1.16	42986.730	1.5	80288.250	1.5
267.7368	10.00	-.41	134459.287	1.0	171798.300	1.0	268.0060	41.01	.01	8227.067	0.0	45539.664	0.0
267.7398	9.02	-1.13	390120.770	.5	427459.370	.5	268.0060	73.01	.57	5565.369	0.0	42877.966	0.0
267.7425	26.02	-2.54	83358.880	2.0	120697.100	1.0	268.0106	27.00	-1.16	15774.040	1.5	53074.920	1.5
267.7427	24.02	-3.43	116391.600	2.0	153729.800	1.0	268.0147	28.01	-.50	72375.420	1.5	109675.720	.5
267.7463	23.00	-5.04	137.380	2.5	37475.080	3.5	268.0188	24.01	-1.38	32603.730	2.5	69903.460	3.5
267.7516	25.01	-.32	34910.430	4.0	72247.380	3.0	268.0240	26.01	-2.08	46967.470	2.5	84266.480	2.5
267.7580	72.01	-1.41	6291.287	0.0	43638.444	0.0	268.0290	24.01	-.96	40415.340	.5	77713.660	1.5
267.7592	14.03	-1.73	276579.030	1.5	313914.920	2.5	268.0332	24.00	-2.26	7927.470	2.0	45225.200	2.0
267.7592	14.03	-2.68	276579.030	1.5	313914.920	1.5	268.0334	25.01	-.14	33248.320	4.0	70546.020	4.0
267.7660	41.01	.07	10808.108	0.0	48154.149	0.0	268.0341	11.00	-2.97	0.000	.5	37297.610	1.5
267.7696	24.01	-3.93	36101.820	3.5	73436.270	2.5	268.0349	25.02	-4.09	140179.740	2.5	177477.230	2.5
267.7760	75.00	-.27	14518.354	0.0	51863.000	0.0	268.0368	25.01	-1.47	43850.420	2.0	81147.650	2.0
267.7790	74.01	.18	4678.136	0.0	42022.364	0.0	268.0375	25.01	.25	52653.270	4.0	89950.400	3.0
267.7795	8.02	-1.80	329467.980	2.0	366801.040	3.0	268.0398	27.01	-1.46	28111.900	2.0	65408.710	2.0
267.7803	23.01	-.65	36.050	1.0	37369.010	2.0	268.0399	25.03	-3.77	152986.000	2.0	190282.800	3.0
267.7841	10.00	-4.16	134459.287	1.0	171791.700	2.0	268.0400	70.01	-1.00	26616.982	0.0	63924.846	0.0
267.7851	25.01	-.36	32818.100	0.0	70150.390	1.0	268.0406	10.01	-3.27	246597.710	.5	283894.410	.5
267.7852	9.02	-3.47	426989.570	3.5	464321.840	2.5	268.0434	11.00	.32	0.000	.5	37296.320	.5
267.7862	18.02	-1.25	187823.050	2.0	225155.180	1.0	268.0451	23.02	-4.59	61777.150	1.5	99073.230	.5
267.7879	25.03	-1.98	152700.500	4.0	190032.400	4.0	268.0454	26.00	-1.43	7985.783	2.0	45281.816	2.0
267.7898	10.02	-.57	319444.900	1.0	356776.520	0.0	268.0464	23.01	-1.26	17910.980	4.0	55206.870	5.0
267.7898	10.02	.12	319444.900	1.0	356776.520	2.0	268.0541	16.02	-.75	172631.270	0.0	209926.100	1.0
267.7906	14.01	-1.13	81191.600	.5	118523.120	1.5	268.0586	30.02	-.91	220668.300	2.0	257962.500	2.0
267.7908	27.01	-2.89	48150.700	3.0	85482.190	4.0	268.0630	45.00	-1.00	3226.430	0.0	40530.964	0.0
267.7942	24.01	-2.72	33521.230	3.5	70852.240	3.5	268.0644	23.01	-3.41	11908.270	2.0	49201.660	2.0
267.7951	26.02	-3.23	92523.910	5.0	129854.800	6.0	268.0656	25.01	-2.77	44899.820	3.0	82193.040	2.0
267.8024	28.00	-2.38	13521.352	2.0	50851.220	1.0	268.0660	73.01	.32	4355.506	0.0	41659.752	0.0
267.8057	27.01	-3.10	27585.300	1.0	64914.710	2.0	268.0665	24.02	-2.96	71166.100	2.0	108459.200	2.0
267.8082	11.01	-.42	293224.120	1.0	330553.180	0.0	268.0679	18.01	.56	41182.530	7.0	78475.430	7.0
267.8082	11.01	-.42	293224.120	1.0	330553.180	0.0	268.0702	21.01	-1.23	26081.320	2.0	63373.910	2.0
267.8085	24.01	-3.24	54625.760	2.5	91954.780	2.5	268.0709	27.00	-2.92	4690.180	2.5	41982.660	1.5
267.8156	24.00	-2.06	7927.470	2.0	45255.510	3.0	268.0716	26.01	-.08	60837.590	6.5	98129.980	6.5
267.8216	23.03	-1.91	254468.800	2.0	291796.000	1.0	268.0753	24.01	-2.50	30156.940	3.5	67448.820	4.5
267.8247	24.00	-2.00	28682.180	2.0	66008.950	3.0	268.0776	25.01	-1.37	32858.840	2.0	70150.390	1.0
267.8290	63.01	-1.02	1613.150	0.0	38950.406	0.0	268.0788	26.01	-2.38	25981.650	3.5	63273.030	2.5
267.8344	22.00	-2.78	0.000	2.0	37325.407	2.0	268.0806	23.01	-2.23	30613.970	4.0	67905.100	3.0
267.8382	18.02	-1.00	187823.050	2.0	225147.930	2.0	268.0814	23.01	-2.56	26839.820	3.0	64130.840	4.0
267.8409	26.01	-2.90	42114.790	4.5	79439.300	3.5	268.0844	16.02	-1.55	174036.190	1.0	211326.800	1.0
267.8430	72.01	-.44	17260.709	0.0	54596.014	0.0	268.0867	24.01	-1.58	30298.770	5.5	67589.060	6.5
267.8520	74.00	-.16	19680.435	0.0	57014.485	0.0	268.0874	17.02	-.17	217850.200	2.5	255140.400	2.5
267.8534	24.01	-1.30	47354.630	2.5	84677.390	3.5	268.0911	26.00	-2.47	12560.933	3.0	49850.610	3.0
267.8555	25.01	-2.06	30523.450	6.0	67845.930	5.0	268.0965	25.01	-4.09	67766.510	2.0	105055.430	2.0
267.8575	23.01	-.85	208.890	3.0	37531.090	4.0	268.1003	28.02	-4.52	75646.900	4.0	112935.300	3.0
267.8630	40.01	.55	1290.520	0.0	38623.037	0.0	268.1007	26.01	-.68	61156.900	3.5	98445.240	4.5
267.8639	10.02	-.10	319444.900	1.0	356766.200	1.0	268.1018	28.01	-4.34	98561.220	2.5	135849.410	2.5
267.8646	23.03	-2.20	255445.500	3.0	292766.700	2.0	268.1039	26.01	-.55	49101.090	.5	86388.980	.5
267.8660	41.01	-.83	80.658	0.0	37412.757	0.0	268.1075	17.01	-3.17	121499.000	2.0	158786.400	3.0
267.8661	23.00	-1.41	323.420	3.5	37644.410	4.5	268.1082	24.01	-1.73	30219.040	4.5	67506.340	5.5
267.8670	42.00	-.67	11372.710	0.0	48704.670	0.0	268.1100	77.00	-1.20	5726.684	0.0	43024.808	0.0
267.8713	26.02	-1.72	181772.590	6.0	219092.860	5.0	268.1125	26.02	-2.57	82410.940	2.0	119697.640	2.0
267.8713	22.00	-8.94	6842.964	5.0	44163.240	5.0	268.1250	25.01	.04	41190.470	6.0	78475.430	7.0
267.8718	26.02	-3.14	109570.840	2.0	146891.040	3.0	268.1274	23.01	-2.44	13490.840	2.0	50775.470	2.0
267.8724	23.00	-4.03	137.380	2.5	37457.500	1.5	268.1279	26.01	-2.47	63465.190	1.5	100749.750	2.5
267.8761	25.01	-3.24	53698.700	2.0	91018.300	3.0	268.1308	26.02	-1.29	181808.700	5.0	219092.860	5.0
267.8770	22.00	-7.96	6842.964	5.0	44162.440	4.0	268.1326	29.01	-3.98	109275.900	3.0	146559.800	4.0
267.8787	24.01	-.16	12032.720	1.5	49351.960	2.5	268.1342	25.01	-3.52	31760.930	2.0	69044.610	2.0
267.8800	73.01	1.06	18067.285	0.0	55397.433	0.0	268.1360	42.01	.55	23713.311	0.0	61007.818	0.0
267.8803	26.02	-1.25	97041.380	3.0	134360.400	4.0	268.1371	28.01	-2.40	68156.570	1.5	105439.850	1.5
267.8811	24.02	-2.63	120747.800	4.0	158066.700	3.0	268.1410	74.00	.06	2903.671	0.0	40197.483	0.0
267.8862	28.01	-3.78	98561.220	2.5	135879.410	3.5	268.1427	11.02	-3.69	374681.400	.5	411963.900	1.5
267.8866	21.00	-2.13	168.340	2.5	37486.480	1.5	268.1444	15.01	-2.32	103668.740	3.0	140951.000	3.0
267.8880	74.00	-.65	2903.671	0.0	40232.704	0.0	268.1461	24.00	-1.13	7593.160	2.0	44875.190	2.0
267.8930	90.01	-.89	9517.587	0.0	46845.923	0.0	268.1505	22.01	-2.19	31300.920	4.5	68582.340	5.5
267.9010	41.00	-.43	1532.493	0.0	38859.715	0.0	268.1528	25.02	-1.97	100001.300	2.5	137282.400	2.5
267.9020	24.01	-1.03	49351.960	2.5	86667.950	1.5	268.1650	39.00	-1.62	0.000	0.0	37290.474	0.0
267.9023	26.00	-.64	19788.248	4.0	57104.207	5.0	268.1679	25.01	-1.83	33248.320	4.0	70527.320	5.0
267.9060	77.00	-.27	11775.998	0.0	49102.523	0.0	268.1700	27.					

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
268.2550	24.01	-1.93	51789.210	3.5	89056.100	2.5	268.5152	28.01	-3.45	99442.860	4.5	136673.640	4.5
268.2564	24.01	-2.13	47227.500	3.5	84494.200	2.5	268.5162	28.01	-3.35	100332.090	4.5	137562.740	3.5
268.2569	26.00	-5.19	11976.239	4.0	49242.872	3.0	268.5170	73.01	1.12	4032.876	0.0	41274.466	0.0
268.2587	26.01	-7.72	62065.570	3.5	99331.950	4.5	268.5183	24.01	-2.66	30156.940	3.5	67387.300	2.5
268.2600	9.03	-4.66	460215.200	0.0	497481.400	1.0	268.5193	25.01	-2.46	70940.240	2.0	108170.450	2.0
268.2604	26.02	-4.13	149525.630	2.0	186791.780	2.0	268.5220	72.01	0.06	17744.654	0.0	54985.550	0.0
268.2620	42.00	-7.70	11050.080	0.0	48327.070	0.0	268.5224	24.01	-1.08	30219.040	4.5	67448.820	4.5
268.2627	18.03	-7.21	251972.000	2.5	289237.820	1.5	268.5328	26.01	-2.81	62689.960	2.5	99918.300	1.5
268.2730	58.01	-3.39	3548.931	0.0	40824.393	0.0	268.5336	27.00	-1.30	4690.180	2.5	41918.410	3.5
268.2749	26.00	-3.02	17726.985	2.0	54991.110	1.0	268.5358	25.00	-1.09	24802.250	3.5	62030.180	4.5
268.2750	29.01	-2.76	73101.870	1.0	110365.980	2.0	268.5392	24.00	-2.64	24299.890	2.0	61527.340	1.0
268.2760	51.00	-7.17	18309.257	0.0	55584.302	0.0	268.5392	24.00	-2.68	23933.900	4.0	61161.350	5.0
268.2776	23.01	-3.11	13511.710	1.0	50775.470	2.0	268.5400	27.00	-4.19	8460.810	2.5	45688.150	2.5
268.2800	24.00	-5.83	8095.210	3.0	45358.630	4.0	268.5403	23.01	-2.83	2968.220	4.0	40195.520	3.0
268.2802	23.01	-1.30	30641.710	3.0	67905.100	3.0	268.5404	17.02	0.23	217913.100	1.5	255140.400	2.5
268.2830	26.02	-2.90	182392.550	2.0	219655.550	2.0	268.5417	23.01	-5.14	13511.710	1.0	50738.820	1.0
268.2875	23.01	-8.85	106.630	2.0	37369.010	2.0	268.5418	26.01	-2.19	42658.230	3.5	79885.320	2.5
268.2879	26.02	-4.73	182480.720	2.0	219743.040	1.0	268.5439	28.01	-4.80	73893.730	1.5	111120.540	1.5
268.2886	22.01	-3.54	29734.450	3.5	66996.670	3.5	268.5458	28.01	-3.62	100309.290	5.5	137535.830	5.5
268.2938	21.01	-3.24	27443.650	2.0	64705.160	2.0	268.5475	27.01	-3.56	9812.700	4.0	47039.000	3.0
268.2973	24.01	-2.07	47464.940	4.5	84725.960	3.5	268.5522	26.02	-4.54	142535.070	2.0	179760.720	3.0
268.2983	26.01	-2.21	49506.990	1.5	86767.870	2.5	268.5525	24.01	-2.48	30143.720	5.5	67369.330	5.5
268.2987	24.01	-1.42	33619.130	4.5	70879.950	5.5	268.5542	25.01	-2.44	48317.850	4.0	85543.230	5.0
268.3048	28.01	-2.62	75917.630	3.5	113177.610	3.5	268.5567	25.02	-4.43	136823.860	3.5	174048.690	2.5
268.3088	23.01	-8.86	0.000	0.0	37259.420	1.0	268.5590	17.01	-1.13	121499.000	2.0	158723.700	1.0
268.3093	18.01	-1.97	174409.830	1.5	211669.180	2.5	268.5611	26.02	-4.79	142535.070	2.0	179759.490	2.0
268.3105	25.01	-1.73	44521.520	4.0	81780.700	3.0	268.5623	25.00	-2.11	25281.040	2.5	62505.290	3.5
268.3158	24.00	-6.22	8307.570	4.0	45565.020	3.0	268.5638	26.02	-2.54	97041.380	3.0	134265.420	2.0
268.3218	24.01	-4.99	31219.490	4.5	68477.110	4.5	268.5641	18.02	-4.45	231754.800	0.0	268978.800	1.0
268.3230	42.01	0.80	11695.340	0.0	48963.856	0.0	268.5660	63.01	-1.24	0.000	0.0	37234.795	0.0
268.3284	13.01	-2.66	110087.500	2.0	147344.200	3.0	268.5687	23.01	-1.52	36.050	1.0	37259.420	1.0
268.3288	26.02	-2.99	182486.400	1.0	219743.040	1.0	268.5687	25.01	-6.64	66644.780	1.0	103868.140	1.0
268.3340	74.00	0.27	12098.628	0.0	49365.616	0.0	268.5734	25.01	-2.54	65482.660	3.0	102705.370	3.0
268.3350	72.01	0.64	15002.299	0.0	52269.148	0.0	268.5740	25.00	-3.84	30354.210	3.5	67576.840	4.5
268.3383	28.01	-1.04	75917.630	3.5	113172.960	4.5	268.5741	24.01	-1.74	31083.110	1.5	68305.730	1.5
268.3399	10.01	-1.96	280947.100	1.5	318202.210	1.5	268.5794	28.01	-4.27	100309.290	5.5	137531.180	4.5
268.3420	70.01	-1.08	44200.321	0.0	81466.198	0.0	268.5847	26.01	-0.01	65363.660	5.5	102584.810	5.5
268.3442	10.01	-2.24	280947.100	1.5	318201.600	0.5	268.5881	25.01	-4.17	65482.660	3.0	102703.340	4.0
268.3447	24.01	-4.46	39824.520	4.5	77078.960	5.5	268.5884	25.01	-4.49	30523.450	6.0	67744.080	6.0
268.3467	25.01	-2.81	67766.510	2.0	105020.670	1.0	268.5908	29.01	-4.09	109275.900	3.0	146496.200	3.0
268.3505	26.01	-3.39	22409.820	0.5	59663.450	1.5	268.5924	28.01	-3.35	100309.290	5.5	137529.370	6.5
268.3518	24.01	-1.87	51669.750	2.5	88923.200	2.5	268.5940	25.00	-5.54	25285.430	4.5	62505.290	3.5
268.3524	24.01	-3.79	32854.460	4.5	70107.830	4.5	268.5985	25.01	-0.06	51553.060	5.0	88772.300	5.0
268.3548	23.01	-2.23	20089.560	1.0	57342.590	2.0	268.5990	24.01	-1.86	30150.160	6.5	67369.330	5.5
268.3560	75.00	0.05	22019.503	0.0	59283.436	0.0	268.5999	25.01	-1.30	33278.390	3.0	70497.440	4.0
268.3646	28.01	-4.85	79823.030	3.5	117074.700	3.5	268.6001	26.01	-2.25	63273.030	2.5	100492.040	3.5
268.3651	8.02	-6.63	363266.800	1.0	400518.400	0.0	268.6017	26.01	-3.99	54670.620	2.5	92089.010	3.5
268.3666	27.01	-2.97	27902.500	4.0	65153.900	4.0	268.6055	26.00	-4.46	12968.552	2.0	50186.814	2.0
268.3700	26.00	-3.69	11976.239	4.0	49227.160	3.0	268.6101	26.01	-2.04	26055.400	2.5	63273.030	2.5
268.3723	26.01	-8.89	62322.500	3.5	99573.110	4.5	268.6105	23.01	-3.79	26839.820	3.0	64057.390	3.0
268.3731	24.01	-9.97	45669.540	1.5	82920.030	1.5	268.6107	25.00	-9.92	25287.740	3.5	62505.290	3.5
268.3741	24.01	-2.16	47354.630	2.5	84604.990	2.5	268.6171	15.00	-4.14	18722.650	0.5	55939.300	0.5
268.3746	24.00	-4.91	24277.060	0.0	61527.340	1.0	268.6207	8.02	-1.11	338851.500	3.0	376067.660	2.0
268.3830	25.01	-2.31	33248.320	4.0	70497.440	4.0	268.6227	26.01	0.34	71432.750	7.5	108648.640	6.5
268.3843	25.01	-3.10	34761.810	5.0	72010.750	4.0	268.6266	22.01	-2.94	31113.610	3.5	68328.950	4.5
268.3855	26.01	-1.56	62083.170	4.5	99331.950	4.5	268.6276	17.02	-4.67	179495.200	2.5	216710.400	3.5
268.3912	23.01	-3.02	13490.840	2.0	50738.820	1.0	268.6290	44.00	0.26	8469.040	0.0	45695.103	0.0
268.3920	26.02	-2.72	84671.870	3.0	121917.740	3.0	268.6290	73.00	-7.76	968.902	0.0	46904.965	0.0
268.3986	24.01	-1.34	38563.150	4.5	75810.100	4.5	268.6305	25.01	-3.80	54846.000	0.0	92060.800	1.0
268.4009	26.02	-4.09	182408.910	3.0	219659.550	2.0	268.6322	18.01	-3.83	135601.650	0.5	172816.210	0.5
268.4019	27.02	-3.80	134698.100	5.5	171942.600	4.5	268.6349	10.01	-2.57	280947.100	1.5	318161.290	2.5
268.4040	77.00	-7.33	10485.478	0.0	47742.747	0.0	268.6360	72.00	-1.22	6533.259	0.0	43758.352	0.0
268.4080	69.01	-1.54	161.315	0.0	37418.029	0.0	268.6383	26.01	-1.89	27620.390	2.5	64834.120	1.5
268.4097	24.01	-9.99	39742.360	2.5	76987.780	2.5	268.6390	41.01	0.95	18389.915	0.0	55614.592	0.0
268.4100	21.01	-3.32	39114.440	1.0	76359.810	1.0	268.6458	10.01	-1.90	280989.530	1.5	318202.210	1.5
268.4140	42.01	1.08	13389.148	0.0	50645.029	0.0	268.6471	25.01	-3.41	53805.800	4.0	91018.300	3.0
268.4199	9.04	-1.41	823132.000	1.5	860376.000	1.5	268.6473	26.01	-4.28	54904.500	3.5	92116.980	4.5
268.4201	26.00	-9.32	12560.933	3.0	49804.900	3.0	268.6502	10.01	-3.21	280989.530	1.5	318201.600	0.5
268.4222	25.01	-2.47	67811.750	3.0	105055.430	2.0	268.6517	23.00	-1.37	553.020	4.5	37764.890	5.5
268.4230	21.01	0.38	39344.900	2.0	76588.480	2.0	268.6531	25.00	-3.79	23549.200	2.5	60760.870	1.5
268.4271	28.01	-0.08	54557.050	4.5	91800.050	4.5	268.6590	26.02	-3.54	182444.700	3.0	219655.550	2.0
268.4280	73.00	-4.46	1935.780	0.0	39189.718	0.0	268.6640	25.01	-9.93	48333.060	5.0	85543.230	5.0
268.4281	24.01	-3.71	49351.960	2.5	86594.820	1.5	268.6652	15.02	-1.33	178653.200	3.5	215863.200	3.5
268.4281	25.01	-8.89	66625.280	0.0	103868.140	1.0	268.6652	15.02	0.22	178653.200	3.5	215863.200	3.5
268.4298	22.00	-8.59	6556.828	1.0	43799.455	2.0	268.6652	15.02	0.10	178653.200	2.5	215863.200	3.5
268.4320	26.01	-6.66	60887.660	5.5	98129.980	6.5	268.6660	24.01	-2.57	30143.720	5.5	67353.600	4.5
268.4360	76.00	0.00	16131.504	0.0	53384.331	0.0	268.6754	10.00	-4.56	135888.717	1.0	173097.300	0.0
268.4385	27.01	0.18	47345.700	5.0	84587.120	4.0	268.6785	25.00	-7.78	272			

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
268.7374	25.01	-0.95	44899.820	3.0	82099.820	4.0	268.9879	23.01	-0.86	36.050	1.0	37201.410	0.0
268.7397	18.01	-2.91	172213.800	1.5	209413.800	1.5	268.9900	44.00	-0.58	10566.135	0.0	47742.238	0.0
268.7402	25.00	-0.93	25287.740	3.5	62487.360	2.5	268.9955	19.02	-0.82	209461.300	0.5	246625.600	1.5
268.7438	28.01	-4.31	96535.870	3.5	133734.980	3.5	269.0022	28.01	-4.17	98467.250	3.5	135630.630	2.5
268.7440	28.01	-3.67	100332.090	4.5	137531.180	4.5	269.0023	18.01	-3.22	172213.800	1.5	209377.170	2.5
268.7526	8.02	-1.16	363766.800	1.0	400464.700	1.0	269.0069	26.00	-2.72	0.000	4.0	37162.729	3.0
268.7529	25.01	-0.07	52731.180	3.0	89571.030	3.0	269.0090	18.01	-3.14	174409.830	1.5	211572.270	1.5
268.7576	25.02	-0.68	100085.200	1.5	137282.400	2.5	269.0111	28.01	-3.37	98467.250	3.5	135629.400	3.5
268.7582	24.01	-3.80	30391.940	6.5	67589.060	6.5	269.0121	25.01	-2.75	70960.240	2.0	108102.250	3.0
268.7605	23.01	-2.25	35483.390	6.0	72680.200	5.0	269.0183	28.01	-2.31	98467.250	3.5	135628.410	4.5
268.7615	24.01	-2.14	30156.940	3.5	67353.600	4.5	269.0236	25.01	-1.13	66643.010	4.0	103803.440	3.0
268.7665	28.01	-4.54	92792.080	3.5	129988.050	2.5	269.0245	24.00	-2.09	8095.210	3.0	45255.510	3.0
268.7675	26.02	-2.93	181808.700	5.0	219004.530	4.0	269.0250	75.00	-0.26	16212.162	0.0	53383.429	0.0
268.7733	24.01	-0.97	39684.000	3.5	76879.030	3.5	269.0258	23.01	-0.63	208.890	3.0	37369.010	2.0
268.7750	40.00	-0.66	1209.863	0.0	38415.704	0.0	269.0295	25.01	-1.04	66676.560	2.0	103836.170	2.0
268.7764	20.02	-0.09	242547.190	2.0	279741.800	2.0	269.0356	26.00	-6.07	11976.239	4.0	49135.003	3.0
268.7887	23.01	-4.29	2808.760	3.0	40001.660	2.0	269.0397	9.02	-0.47	416185.420	2.5	453343.620	2.5
268.7960	70.01	-0.88	30085.255	0.0	67288.190	0.0	269.0398	25.01	-0.59	41182.530	7.0	78340.720	6.0
268.7961	23.01	-0.03	339.210	4.0	37531.090	4.0	269.0413	24.01	-0.99	33521.230	3.5	70679.220	4.5
268.7977	25.01	-1.24	52379.380	2.0	89571.030	3.0	269.0417	25.01	-1.36	49291.310	3.0	86449.240	4.0
268.7983	25.01	-1.28	66676.560	2.0	103868.140	1.0	269.0472	26.02	-3.38	182408.910	3.0	219566.080	3.0
268.7990	42.01	-0.80	12340.601	0.0	49543.120	0.0	269.0482	28.01	-0.56	56371.410	3.5	93528.440	3.5
268.7994	28.01	-4.63	100332.090	4.5	137523.510	3.5	269.0489	7.01	-1.17	189335.160	3.0	226492.090	4.0
268.7996	25.01	-0.92	66644.780	1.0	103836.170	2.0	269.0540	73.00	-0.82	9194.957	0.0	46362.217	0.0
268.7999	15.00	-3.78	18747.950	1.5	55939.300	0.5	269.0549	23.03	-1.68	217990.700	1.0	255146.800	2.0
268.8034	24.00	-1.76	8095.210	3.0	45286.080	4.0	269.0604	28.01	-2.58	98467.250	3.5	135622.600	3.5
268.8039	29.02	-4.15	85446.400	1.5	122637.200	0.5	269.0609	22.00	-1.87	170.132	3.0	37325.407	2.0
268.8040	10.01	-2.12	280989.530	1.5	318180.310	2.5	269.0674	10.01	-1.99	281025.940	2.5	318180.310	2.5
268.8072	10.01	-2.64	280989.530	1.5	318179.870	1.5	269.0681	23.00	-6.24	2112.320	0.5	39266.600	1.5
268.8075	17.01	-0.90	112608.000	1.0	149798.300	2.0	269.0706	10.01	-2.97	281025.940	2.5	318179.870	1.5
268.8080	76.00	-0.08	14760.326	0.0	51961.600	0.0	269.0728	7.01	-2.23	189335.160	3.0	226488.790	3.0
268.8081	25.00	-2.12	23549.200	2.5	60739.420	3.5	269.0731	24.01	-1.78	38563.150	4.5	75716.740	3.5
268.8090	27.01	-4.20	24267.800	1.0	61457.900	0.0	269.0743	26.02	-3.71	182412.650	4.0	219566.080	3.0
268.8105	9.02	-3.89	427731.850	2.5	464921.740	3.5	269.0789	23.01	-0.64	106.630	2.0	37259.420	1.0
268.8110	44.00	-0.59	25971.721	0.0	63172.580	0.0	269.0871	23.00	-2.87	323.420	3.5	37475.080	3.5
268.8111	9.03	-0.10	460385.800	1.0	497575.600	2.0	269.0890	17.01	-1.91	121635.000	3.0	158786.400	3.0
268.8119	23.03	-1.55	227712.500	4.0	264902.200	3.0	269.0931	28.01	-3.17	98467.250	3.5	135618.080	2.5
268.8129	10.01	-3.73	280473.580	1.5	317663.130	1.5	269.0932	28.01	-4.16	79923.880	4.5	117074.700	3.5
268.8147	24.00	-1.03	23933.900	4.0	61123.200	4.0	269.0944	23.01	-3.63	13511.710	1.0	50662.360	0.0
268.8148	24.01	-0.07	45730.740	2.5	82920.030	1.5	269.0970	24.01	-1.98	30219.040	4.5	67369.330	5.5
268.8169	22.00	-4.61	170.132	3.0	37359.130	2.0	269.0973	25.01	-0.49	41190.470	6.0	78340.720	6.0
268.8231	24.01	-4.00	31117.590	2.5	68305.730	1.5	269.0988	24.01	-0.00	30298.770	5.5	67448.820	4.5
268.8279	24.01	-0.14	30156.940	3.5	67344.420	2.5	269.0998	25.03	-2.30	152986.000	2.0	190135.900	2.0
268.8291	25.01	-0.70	52383.720	4.0	89571.030	3.0	269.1011	25.01	-0.82	66686.450	3.0	103836.170	2.0
268.8330	23.01	-3.49	26839.820	3.0	64026.600	4.0	269.1029	7.01	-3.92	189335.160	3.0	226484.640	2.0
268.8340	90.01	-1.54	4436.164	0.0	41633.840	0.0	269.1030	24.01	-0.29	12496.790	4.5	49646.250	3.5
268.8350	72.00	-0.92	8872.327	0.0	46069.865	0.0	269.1060	77.00	-0.42	12824.546	0.0	49984.624	0.0
268.8358	25.01	-1.92	30679.240	5.0	67865.630	4.0	269.1090	74.00	-0.72	4758.794	0.0	41918.458	0.0
268.8404	24.00	-1.73	7927.470	2.0	45113.220	3.0	269.1146	26.02	-4.43	142535.070	2.0	179682.940	1.0
268.8422	27.01	-3.15	24074.600	2.0	61260.100	2.0	269.1171	7.01	-1.96	189335.160	3.0	226482.680	3.0
268.8423	24.01	-0.24	33694.470	5.5	70879.950	5.5	269.1181	26.02	-4.92	182418.700	4.0	219566.080	3.0
268.8465	28.01	-4.68	98561.220	2.5	135746.130	1.5	269.1188	23.00	-5.96	2153.200	1.5	39300.480	2.5
268.8497	24.01	-0.35	45669.540	1.5	82854.000	0.5	269.1203	25.01	-1.07	52653.270	4.0	89800.340	2.0
268.8505	9.02	-1.71	416185.420	2.5	453369.770	1.5	269.1249	28.01	-2.43	100389.520	2.5	137535.960	3.5
268.8530	75.00	-0.02	15647.559	0.0	52842.606	0.0	269.1276	25.01	-0.91	52373.180	3.0	89519.250	2.0
268.8540	28.01	-3.93	99340.550	3.5	136524.420	4.5	269.1310	73.00	-0.96	0.000	0.0	37156.626	0.0
268.8554	25.01	-4.66	71263.920	1.0	108447.600	2.0	269.1328	25.01	-2.84	55371.300	3.0	92516.650	4.0
268.8576	25.01	-2.15	4138.960	1.0	81322.330	1.0	269.1337	26.01	-0.99	66463.590	5.5	103608.820	4.5
268.8618	25.02	-4.02	140294.440	3.5	177477.230	2.5	269.1340	32.00	-0.10	483.945	0.0	37640.157	0.0
268.8620	24.00	-1.76	20519.600	6.0	57702.360	5.0	269.1398	24.00	-1.31	23933.900	4.0	61078.280	3.0
268.8640	42.00	-0.04	21212.928	0.0	58406.453	0.0	269.1419	23.01	-3.20	13594.730	2.0	50738.820	1.0
268.8661	28.02	-2.13	97841.400	2.0	135023.600	3.0	269.1433	17.02	-1.61	204541.200	2.5	241685.100	2.5
268.8710	79.00	-1.06	21293.585	0.0	58486.142	0.0	269.1520	24.02	-4.74	120765.300	5.0	157908.000	4.0
268.8719	23.01	-0.84	339.210	4.0	37520.610	3.0	269.1524	24.00	-1.23	24833.860	3.0	61976.500	4.0
268.8726	13.01	-2.55	110087.500	2.0	147268.600	1.0	269.1547	24.01	-2.34	32355.940	3.5	69498.270	4.5
268.8766	23.01	-2.96	13594.730	2.0	50775.470	2.0	269.1556	17.02	-1.14	205938.500	1.5	243080.700	1.5
268.8772	10.01	-4.11	291968.140	0.5	329148.800	1.5	269.1572	24.01	-1.33	49838.430	4.5	86980.420	5.5
268.8835	24.01	-1.99	53923.570	4.5	91103.360	4.5	269.1584	26.02	-4.64	142535.070	2.0	179676.890	2.0
268.8849	27.02	-4.59	135404.000	4.5	172583.600	3.5	269.1690	10.01	-3.57	276511.820	0.5	313652.170	1.5
268.8849	27.02	-4.59	135404.000	4.5	172583.600	3.5	269.1692	16.02	-0.91	172785.770	1.0	209926.100	1.0
268.8878	26.02	-2.79	83646.980	1.0	120826.170	2.0	269.1712	24.00	-2.67	24897.550	4.0	62037.600	5.0
268.8902	26.02	-1.63	181825.670	4.0	219004.530	4.0	269.1725	25.01	-0.11	52379.380	2.0	89519.250	2.0
268.8916	24.00	-3.57	20523.690	4.0	57702.360	5.0	269.1729	25.01	-4.43	29869.110	2.0	67008.930	3.0
268.8926	23.01	-1.89	12545.150	4.0	49723.680	4.0	269.1730	29.01	-4.52	109275.900	3.0	146415.700	2.0
268.8934	24.00	-2.79	20523.690	5.0	57702.360	5.0	269.1730	26.01	-1.59	25805.320	4.5	62943.120	3.5
268.9018	24.01	-1.52	30156.940	3.5	67334.200	3.5	269.1738	25.01	-2.38	65565.680	4.0	102705.370	3.0
268.9060	10.00	-3.89	135888.717	1.0	173065.400	2.0	269.1770	41.01	-0.47	80.658	0.0	37230.935	0.0
268.9089	18.01	-2.31	174409.830	1.5	211586.110	2.5	269.1800	73.01	-0				

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
269.2400	73.00	-0.40	5565.369	0.0	42706.953	0.0	269.4478	25.01	-1.40	82151.070	2.0	119253.000	3.0
269.2420	90.01	-0.67	0.000	0.0	37141.308	0.0	269.4478	25.01	-1.78	82151.070	2.0	119253.000	2.0
269.2435	25.02	-3.72	140557.460	4.0	177687.540	3.5	269.4486	24.01	-2.92	49493.000	.5	86594.820	1.5
269.2442	24.00	-3.07	8095.210	3.0	45225.200	2.0	269.4495	25.01	-3.45	54938.100	1.0	92039.800	2.0
269.2448	10.01	-1.96	246192.450	2.5	283322.350	1.5	269.4520	73.01	.41	2581.041	0.0	39693.402	0.0
269.2452	25.01	.44	48317.850	4.0	85447.703	5.0	269.4520	76.00	-1.1	10969.423	0.0	48081.784	0.0
269.2453	12.00	-2.42	21911.178	2.0	59041.019	2.0	269.4522	24.00	-4.58	24286.540	1.0	61387.860	0.0
269.2462	28.01	-3.81	100389.520	2.5	137519.230	2.5	269.4558	25.00	-1.10	23719.520	1.5	60820.350	2.5
269.2471	27.00	-1.93	13795.520	2.5	50925.110	1.5	269.4595	25.01	-3.25	34910.430	4.0	72010.750	4.0
269.2489	29.01	-1.85	116326.160	3.0	153455.500	4.0	269.4618	17.01	-1.07	149798.300	2.0	186898.300	3.0
269.2589	21.01	-0.19	39114.440	1.0	76242.000	0.0	269.4683	24.01	-1.33	32855.090	2.5	69954.200	2.5
269.2595	18.01	-2.78	135085.920	1.5	172213.800	1.5	269.4683	27.01	-1.17	10708.100	3.0	47807.200	4.0
269.2599	26.01	.27	30388.550	4.5	67516.370	5.5	269.4736	23.01	-4.01	106.630	2.0	37205.010	3.0
269.2600	40.01	.06	7985.094	0.0	45123.919	0.0	269.4750	76.00	-0.30	12663.231	0.0	49772.425	0.0
269.2603	24.00	-4.36	23163.270	0.0	60291.040	1.0	269.4760	73.00	-0.59	5968.656	0.0	43077.712	0.0
269.2610	42.01	.15	27584.872	0.0	64723.559	0.0	269.4768	25.01	-4.42	44138.960	1.0	81236.890	1.0
269.2651	26.00	-2.48	8154.713	1.0	45281.816	2.0	269.4806	26.02	-1.84	181825.670	4.0	218923.080	3.0
269.2653	25.00	-0.28	25265.740	5.5	62392.820	4.5	269.4816	25.01	-1.93	82155.720	1.0	119253.000	2.0
269.2661	24.01	-1.05	49564.800	1.5	86691.770	2.5	269.4816	25.01	-1.63	82155.720	1.0	119253.000	1.0
269.2667	25.01	-1.29	66676.560	2.0	103803.440	3.0	269.4895	24.00	-1.26	24833.860	3.0	61930.050	3.0
269.2700	28.01	-3.25	51045.460	4.5	88171.880	4.5	269.4902	23.01	-2.25	30641.710	3.0	67737.800	2.0
269.2700	76.00	.17	13953.751	0.0	51091.197	0.0	269.4930	23.00	-7.04	2153.200	1.5	39248.900	1.5
269.2727	27.00	-2.42	7442.410	3.5	44568.470	2.5	269.4937	9.03	-0.69	460385.800	1.0	497481.400	1.0
269.2729	8.02	-3.57	329467.980	2.0	366594.010	2.0	269.4993	25.01	-1.93	82158.160	0.0	119253.000	1.0
269.2751	21.00	-0.78	0.000	1.5	37125.720	.5	269.5023	26.02	-2.26	181828.660	2.0	218923.080	3.0
269.2804	9.03	.22	551098.000	2.0	588223.000	3.0	269.5028	25.01	-3.11	71078.180	1.0	108172.540	1.0
269.2819	23.00	-7.28	2112.320	.5	39237.100	.5	269.5035	25.01	-2.83	33248.320	4.0	70342.580	3.0
269.2827	26.01	-4.06	7955.240	3.5	45079.910	2.5	269.5036	26.00	-0.25	6928.266	5.0	44022.518	4.0
269.2830	73.01	-0.56	3145.643	0.0	40281.296	0.0	269.5040	41.00	-0.38	2097.096	0.0	39202.297	0.0
269.2839	25.02	-3.94	140563.030	3.5	177687.540	3.5	269.5052	25.01	.10	44899.820	3.0	81993.850	4.0
269.2843	25.01	-4.79	71323.150	2.0	108447.600	2.0	269.5054	23.03	-0.75	254824.100	1.0	291918.100	2.0
269.2867	7.01	-2.84	174212.030	2.0	211336.160	1.0	269.5122	26.02	-1.66	181830.020	3.0	218923.080	3.0
269.2870	25.02	-4.31	136796.610	2.5	173920.690	1.5	269.5154	26.02	1.05	147354.750	5.0	184447.380	6.0
269.2880	77.00	-1.79	12098.628	0.0	49233.591	0.0	269.5179	12.00	-2.48	21870.464	1.0	58962.739	1.0
269.2894	27.00	-2.11	14036.280	1.5	51160.030	2.5	269.5180	25.01	-3.40	71078.180	1.0	108170.450	2.0
269.2920	40.00	-1.42	0.000	0.0	37134.412	0.0	269.5188	28.01	-3.88	66571.340	2.5	103663.500	1.5
269.2970	25.01	-4.06	54938.100	1.0	92060.800	1.0	269.5191	26.02	-2.79	182379.860	5.0	219471.970	4.0
269.2986	27.01	-1.37	25317.720	1.0	62440.200	1.0	269.5191	24.01	-1.97	49646.250	3.5	86738.360	3.5
269.3012	24.01	-1.37	32355.940	3.5	69478.060	2.5	269.5191	25.01	-1.00	52373.180	3.0	89465.300	4.0
269.3040	42.00	-1.66	12259.943	0.0	49392.700	0.0	269.5210	90.01	-0.06	11614.683	0.0	48717.543	0.0
269.3044	25.01	-1.28	36274.290	2.0	73395.970	2.0	269.5220	28.01	-4.24	98561.220	2.5	135652.930	1.5
269.3048	23.00	-5.53	2220.130	2.5	39341.760	3.5	269.5220	42.01	.32	23713.311	0.0	60816.034	0.0
269.3066	26.02	-2.77	182444.700	3.0	219566.080	3.0	269.5232	28.01	-4.04	98467.250	3.5	135558.800	4.5
269.3106	25.01	-1.39	36274.290	2.0	73395.120	3.0	269.5244	23.00	-2.83	553.020	4.5	37644.410	4.5
269.3130	27.01	-2.24	13261.100	2.0	50381.600	3.0	269.5314	26.02	.88	147326.850	4.0	184417.270	5.0
269.3194	25.01	-1.14	29889.310	3.0	67008.930	3.0	269.5359	27.02	-3.65	91715.100	2.5	128804.900	1.5
269.3253	27.02	-4.02	70934.100	2.5	108052.900	2.5	269.5366	25.01	-0.33	29919.220	2.0	67008.930	3.0
269.3254	23.03	-3.59	217350.000	3.0	254468.800	2.0	269.5372	24.01	-2.33	49564.800	1.5	86654.430	2.5
269.3260	24.02	-2.23	116967.000	4.0	154085.700	3.0	269.5374	25.02	-4.08	140179.740	2.5	177269.340	1.5
269.3282	24.01	-2.27	29952.080	.5	67070.480	1.5	269.5390	39.00	-1.40	483.945	0.0	37584.328	0.0
269.3290	44.00	-1.45	9033.642	0.0	46162.952	0.0	269.5407	26.01	-2.37	62829.160	.5	99918.300	1.5
269.3321	24.00	-2.10	23512.000	1.0	60629.870	2.0	269.5430	40.01	-0.51	4194.191	0.0	41294.023	0.0
269.3340	73.00	-0.78	5968.656	0.0	43097.277	0.0	269.5433	70.01	-0.81	31456.433	0.0	68556.265	0.0
269.3358	24.01	-1.52	32836.840	3.5	69934.200	2.5	269.5443	22.01	-1.34	31756.500	1.5	68845.140	2.5
269.3385	25.01	-1.75	66686.450	3.0	103803.440	3.0	269.5454	9.03	.12	460640.600	2.0	497729.100	3.0
269.3398	25.01	-1.04	82136.200	4.0	119253.000	5.0	269.5470	57.01	.36	19599.777	0.0	56699.058	0.0
269.3398	25.01	-3.08	82136.200	4.0	119253.000	3.0	269.5490	8.02	.06	363266.800	1.0	400354.800	2.0
269.3398	25.01	-1.90	82136.200	4.0	119253.000	4.0	269.5540	73.01	.35	10646.793	0.0	47745.111	0.0
269.3450	10.01	-4.93	291202.030	3.5	328318.120	3.5	269.5560	75.00	-1.14	15647.559	0.0	52745.602	0.0
269.3482	10.01	-3.72	292033.150	2.5	329148.800	1.5	269.5568	28.01	-4.47	100475.820	3.5	137562.740	3.5
269.3490	77.00	-0.44	17663.997	0.0	54790.550	0.0	269.5613	21.00	-2.76	0.000	1.5	37086.310	1.5
269.3492	10.01	-3.31	292033.150	2.5	329148.670	2.5	269.5670	74.00	-0.42	3306.958	0.0	40403.487	0.0
269.3500	73.00	-1.10	5565.369	0.0	42691.784	0.0	269.5682	26.02	-4.71	182480.720	2.0	219566.080	3.0
269.3517	24.01	-0.73	30219.040	4.5	67334.200	3.5	269.5710	73.01	.03	9678.902	0.0	46774.880	0.0
269.3522	24.02	-2.61	56650.500	2.0	93765.600	2.0	269.5721	10.01	-1.62	281720.280	1.5	318805.100	2.5
269.3530	40.01	-0.64	241.973	0.0	37367.975	0.0	269.5724	26.01	-4.48	23317.600	2.5	60402.380	2.5
269.3540	10.01	-1.04	281720.280	1.5	318835.140	2.5	269.5774	29.01	-3.69	116371.410	4.0	153455.500	4.0
269.3555	25.01	-1.80	48333.060	5.0	85447.700	5.0	269.5782	10.01	-2.85	281720.280	1.5	318804.260	1.5
269.3565	25.01	-0.68	30795.750	4.0	67910.260	4.0	269.5788	23.00	-6.83	2153.200	1.5	39237.100	.5
269.3572	25.01	-4.97	65565.680	4.0	102680.090	5.0	269.5796	28.01	-2.70	66579.710	1.5	103663.500	1.5
269.3573	24.01	-1.64	30391.940	6.5	67506.340	5.5	269.5810	90.01	-0.85	8549.697	0.0	45644.299	0.0
269.3645	23.00	-7.35	2153.200	1.5	39266.600	1.5	269.5811	25.02	-2.07	100054.100	.5	137137.690	1.5
269.3689	25.01	-4.98	69044.610	2.0	106157.400	3.0	269.5814	22.00	-5.39	6661.003	3.0	43744.550	4.0
269.3723	12.00	-2.96	21850.405	0.0	58962.739	1.0	269.5846	27.00	-1.26	4142.660	3.5	41225.760	4.5
269.3734	25.02	-4.28	139857.840	4.0	176970.010	5.5	269.5912	24.02	-3.45	71166.100	2.0	108248.300	1.0
269.3747	9.03	.38	551366.000	3.0	588478.000	4.0	269.5917	26.02	-3.78	84159.550	4.0	121241.670	4.0
269.3798	23.00	-6.50	2311.370	3.5	39422.660	2.5	269.5936	28.01	-3.17	99040.750	1.5	136122.610	2.5
269.3830	25.01	-1.92	36274.290	2.0	73385.150	1.0	269.5948	25.01	-3.24	30684.810	1.0	67766.510	2.0
269.3853	26.0												

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
269.6810	73.00	.02	9194.957	0.0	46275.804	0.0	269.9243	28.01	-4.97	99844.130	3.5	136880.560	4.5
269.6830	42.01	.21	33392.213	0.0	70472.785	0.0	269.9267	24.00	-2.30	20520.920	3.0	57557.030	3.0
269.6830	90.01	-.32	12098.628	0.0	49179.200	0.0	269.9291	28.01	-3.76	100490.950	1.5	137526.730	2.5
269.6842	28.01	-3.86	98561.220	2.5	135630.630	2.5	269.9293	26.02	-2.39	182379.860	5.0	219415.610	5.0
269.6899	26.02	.68	147305.970	3.0	184374.590	4.0	269.9330	25.01	-3.22	44745.460	2.0	81780.700	3.0
269.6931	28.01	-3.67	98561.220	2.5	135629.400	3.5	269.9345	24.01	-2.63	32603.730	2.5	69638.770	1.5
269.6985	25.01	-1.04	44745.460	2.0	181812.900	2.0	269.9377	30.02	-1.18	221143.700	3.0	258178.300	4.0
269.7011	24.00	-1.26	24056.110	5.0	61123.200	4.0	269.9406	9.03	-4.92	423606.400	1.0	460640.600	2.0
269.7022	26.00	-1.09	12560.933	3.0	49627.861	4.0	269.9410	42.01	.29	22342.133	0.0	59387.265	0.0
269.7045	24.01	-3.51	32836.840	3.5	69903.460	3.5	269.9431	23.01	-3.43	13741.610	3.0	50775.470	2.0
269.7046	27.01	-2.79	11321.500	2.0	48388.100	2.0	269.9467	9.02	-2.10	389525.550	1.5	426558.910	1.5
269.7058	24.00	-3.80	20520.920	3.0	57587.360	4.0	269.9469	24.00	-1.58	20523.690	4.0	57557.030	3.0
269.7060	41.01	.45	1209.863	0.0	38287.273	0.0	269.9530	24.00	-2.82	24897.550	4.0	61930.050	3.0
269.7138	28.01	-4.50	99442.860	4.5	136508.200	5.5	269.9564	25.01	-3.71	29869.110	2.0	66901.140	2.0
269.7174	25.01	-4.70	30679.240	5.0	67744.080	6.0	269.9567	25.02	-4.98	136888.700	1.5	173920.690	1.5
269.7187	23.01	-1.36	30673.140	2.0	67737.800	2.0	269.9574	26.01	-2.14	49706.470	2.5	86738.360	3.5
269.7209	24.00	-1.42	7810.820	1.0	44875.190	2.0	269.9580	75.00	-1.10	11695.340	0.0	48738.139	0.0
269.7255	26.00	-4.18	17927.378	1.0	54991.110	1.0	269.9583	26.02	-1.69	181828.660	2.0	218860.430	2.0
269.7260	24.00	-2.07	20523.690	4.0	57587.360	4.0	269.9590	25.01	-2.57	36364.300	1.0	73395.970	2.0
269.7260	75.00	-2.07	0.000	0.0	37074.661	0.0	269.9590	76.00	-.55	2661.698	0.0	39704.360	0.0
269.7278	24.01	-1.28	33521.230	3.5	70584.640	2.5	269.9590	74.00	-.07	6129.972	0.0	43172.634	0.0
269.7278	24.00	-1.31	20523.940	5.0	57587.360	4.0	269.9600	40.01	-.86	241.973	0.0	37284.498	0.0
269.7326	26.01	-.98	36126.410	1.5	73189.160	1.5	269.9625	17.02	-2.26	204541.200	2.5	241572.400	1.5
269.7327	24.01	-3.52	53923.570	4.5	90986.310	3.5	269.9652	10.01	-3.03	281171.380	2.5	318202.210	1.5
269.7330	17.01	-1.74	149798.300	2.0	186861.000	2.0	269.9675	25.01	-2.88	46903.260	2.0	83933.770	3.0
269.7343	26.02	.28	147354.750	5.0	184417.270	5.0	269.9682	26.02	-2.07	181830.020	3.0	218860.430	2.0
269.7354	28.01	-4.58	98561.220	2.5	135623.590	1.5	269.9684	23.00	-5.46	2311.370	3.5	39341.760	3.5
269.7363	25.02	-4.25	140207.090	2.5	177269.340	1.5	269.9711	24.01	-2.93	49564.800	1.5	86594.820	1.5
269.7398	28.00	-.98	25753.578	4.0	62815.340	5.0	269.9802	23.00	-7.26	2220.130	2.5	39248.900	1.5
269.7426	28.01	-3.91	98561.220	2.5	135622.600	3.5	269.9815	22.01	-3.27	29968.080	4.5	66996.670	3.5
269.7450	26.01	-.45	36126.410	1.5	73187.460	.5	269.9824	26.01	-4.04	65556.340	4.5	102584.810	5.5
269.7510	74.00	-1.17	2903.671	0.0	39974.896	0.0	269.9838	28.01	-4.80	100490.950	1.5	137519.230	2.5
269.7516	28.01	-3.70	100475.820	3.5	137535.960	3.5	269.9846	25.01	-1.10	64473.130	3.0	101501.300	3.0
269.7519	25.01	-2.28	29869.110	2.0	66929.220	2.0	269.9856	22.01	-3.73	31300.920	4.5	68328.950	4.5
269.7520	24.01	.20	33619.130	4.5	70679.220	4.5	269.9865	17.02	-.35	221862.900	.5	258890.800	1.5
269.7540	90.01	-1.51	1451.835	0.0	38522.648	0.0	269.9872	20.02	-1.86	290934.300	0.0	327962.110	1.0
269.7542	10.01	-4.97	280768.520	.5	317828.320	.5	269.9880	44.00	-.20	7985.094	0.0	45023.777	0.0
269.7576	26.02	-2.86	182412.650	4.0	219471.970	4.0	269.9909	28.02	-2.60	97996.300	3.0	135023.600	3.0
269.7580	14.02	-2.13	207874.090	0.0	244933.360	1.0	269.9911	26.02	-4.40	182444.700	3.0	219471.970	4.0
269.7710	74.01	-.12	1451.835	0.0	38520.312	0.0	269.9952	25.01	-1.73	64473.130	3.0	101499.840	2.0
269.7712	25.01	-4.72	71390.140	3.0	108467.600	2.0	269.9954	24.00	-2.73	23933.900	4.0	60960.580	4.0
269.7728	26.01	-1.18	33466.500	4.5	70523.730	3.5	269.9989	28.01	-2.22	55299.650	4.5	92325.850	3.5
269.7730	6.03	-.52	408309.000	0.0	445377.202	0.0	270.0010	74.00	.40	12098.628	0.0	49135.528	0.0
269.7755	28.01	-4.34	98561.220	2.5	135618.080	2.5	270.0011	25.01	-.67	64473.130	3.0	101499.030	4.0
269.7810	42.00	-.29	10888.765	0.0	47955.868	0.0	270.0027	28.01	-2.84	76727.360	5.5	113753.040	4.5
269.7812	26.01	-.22	61512.670	4.5	98568.750	3.5	270.0050	26.02	.41	147291.210	2.0	184316.580	3.0
269.7835	23.01	-3.00	18293.870	2.0	55349.630	3.0	270.0069	21.01	-3.54	27917.690	1.0	64942.790	0.0
269.7864	28.01	-3.18	100475.820	3.5	137531.180	4.5	270.0100	25.01	-7.06	29869.110	2.0	66893.790	1.0
269.7891	10.03	-4.62	605417.000	3.5	642472.000	2.5	270.0130	40.01	.08	725.918	0.0	37761.172	0.0
269.7903	24.01	.06	30298.770	5.5	67853.600	4.5	270.0150	41.01	-.13	7823.779	0.0	44858.759	0.0
269.7926	24.01	-.32	39824.520	4.5	76879.030	3.5	270.0201	23.01	-4.40	12545.150	4.0	49568.450	3.0
269.7927	18.01	-4.56	172213.800	1.5	209268.310	1.5	270.0210	42.00	-.31	12259.943	0.0	49294.100	0.0
269.8017	26.02	-2.89	182418.700	4.0	219471.970	4.0	270.0266	26.01	-2.18	33501.320	3.5	70523.730	3.5
269.8073	25.02	-1.80	100085.200	1.5	137137.690	1.5	270.0266	17.01	-1.96	147605.700	3.0	184628.100	4.0
269.8090	24.01	-2.17	51584.440	1.5	88636.700	1.5	270.0289	27.00	-1.84	15774.040	1.5	52796.130	2.5
269.8122	24.01	-.74	31531.620	1.5	68583.440	2.5	270.0301	25.01	-2.19	49427.320	4.0	86449.240	4.0
269.8141	12.00	-2.26	21911.178	2.0	58962.739	1.0	270.0311	25.01	-3.49	65558.300	5.0	102680.090	5.0
269.8178	24.00	-6.23	8307.570	4.0	45358.630	4.0	270.0360	26.02	-4.63	142855.590	4.0	179876.710	4.0
269.8188	28.01	-4.42	100475.820	3.5	137526.730	2.5	270.0379	25.01	-1.80	36364.300	1.0	73385.150	1.0
269.8242	26.00	-3.22	17550.180	3.0	54600.350	3.0	270.0453	26.02	-.76	147354.750	5.0	184374.590	4.0
269.8242	25.01	-3.99	30795.750	4.0	67845.930	5.0	270.0467	26.01	-2.38	66589.170	4.5	103608.820	4.5
269.8246	26.02	-2.57	83646.980	1.0	120697.100	1.0	270.0497	23.00	-.83	323.420	3.5	37342.660	2.5
269.8291	17.01	-2.58	147605.700	3.0	184655.200	3.0	270.0507	23.03	-.93	255747.600	3.0	292766.700	2.0
269.8300	73.00	-.25	1935.780	0.0	38996.151	0.0	270.0540	28.01	-2.60	56371.410	3.5	93390.060	2.5
269.8328	24.01	-2.42	32854.460	4.5	69903.460	3.5	270.0560	10.00	-3.32	134041.840	2.0	171060.220	2.0
269.8373	24.01	-1.98	32855.090	2.5	69903.460	3.5	270.0560	41.01	-.96	3468.273	0.0	40497.630	0.0
269.8381	23.01	-3.44	12545.150	4.0	49593.410	5.0	270.0587	24.00	-.85	8095.210	3.0	45113.220	3.0
269.8402	24.01	-.43	12303.980	3.5	49351.960	2.5	270.0600	90.01	-.92	9517.587	0.0	46546.395	0.0
269.8408	29.02	-2.79	89045.900	3.5	126093.800	3.5	270.0684	27.01	-1.06	48150.700	3.0	85167.380	3.0
269.8419	26.02	.45	147326.850	4.0	184374.590	4.0	270.0700	73.00	-.30	12743.888	0.0	49771.325	0.0
269.8423	28.01	-3.16	100475.820	3.5	137523.510	3.5	270.0729	10.00	-4.11	134041.840	2.0	171057.900	1.0
269.8430	78.00	-.50	6049.314	0.0	43107.900	0.0	270.0733	25.01	-1.95	30795.750	4.0	67811.750	3.0
269.8502	24.00	-5.48	8307.570	4.0	45354.180	5.0	270.0750	76.00	-.50	8630.355	0.0	45657.107	0.0
269.8512	23.00	-6.23	2220.130	2.5	39266.600	1.5	270.0813	21.01	-.10	39344.900	2.0	76359.810	1.0
269.8546	9.04	-.98	823132.000	1.5	860178.000	2.5	270.0822	24.00	-4.73	24093.160	2.0	61107.950	2.0
269.8546	17.01	-2.84	149798.300	2.0	186844.300	1.0	270.0890	79.00	-1.43	9114.300	0.0	46139.133	0.0
269.8570	28.01	-4.26	98467.250	3.5	135512.920	2.5	270.0930	22.00	-9.10	6661.003	3.0	43674.310	4.0
269.8581	24.01	-.63	49646.250	3.5	86691.770	2.5	270.0939	23.01	-.31	339.210	4.0	37352.390	5.0
269.8613													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
270.1480	74.01	.61	14760.326	0.0	51777.072	0.0	270.4040	25.01	.16	64518.570	5.0	101489.310	5.0
270.1514	23.01	-3.45	19166.190	1.0	56171.490	1.0	270.4066	9.02	-2.29	430012.480	1.5	466982.860	2.5
270.1516	28.01	-2.05	76402.030	2.5	113407.310	2.5	270.4111	28.01	-3.42	100592.980	3.5	137562.740	3.5
270.1522	25.01	-.01	64493.830	4.0	101499.030	4.0	270.4239	28.01	-1.83	98467.250	3.5	135435.260	4.5
270.1532	23.01	-1.79	36.050	1.0	37041.110	2.0	270.4260	41.01	.44	13389.148	0.0	50367.841	0.0
270.1557	26.01	-.33	65580.090	5.5	102584.810	5.5	270.4277	10.00	-3.48	134041.840	2.0	171009.340	1.0
270.1580	27.02	-4.28	136129.100	2.5	173133.500	1.5	270.4299	25.01	-3.25	55115.800	2.0	92083.000	3.0
270.1611	18.01	-3.34	155708.020	.5	192712.000	1.5	270.4313	25.01	-.98	66901.140	2.0	103868.140	1.0
270.1642	10.00	-3.62	134818.640	0.0	171822.200	1.0	270.4317	24.01	-1.96	51669.750	2.5	88636.700	1.5
270.1650	24.01	-.93	30864.610	2.5	67868.050	2.5	270.4370	75.00	-.18	16212.162	0.0	53189.351	0.0
270.1661	24.00	-4.55	21856.940	3.0	58860.230	2.0	270.4377	23.00	-5.29	2424.890	4.5	39391.020	4.5
270.1684	23.00	-3.46	553.020	4.5	37556.000	3.5	270.4411	9.02	-1.17	430012.480	1.5	466978.150	1.5
270.1685	26.02	-4.97	182412.650	4.0	219415.610	5.0	270.4418	28.01	-1.43	56424.490	1.5	93390.060	2.5
270.1695	25.01	.61	27546.900	6.0	64549.720	6.0	270.4425	26.02	.01	147281.690	1.0	184247.160	2.0
270.1705	18.01	-3.16	172335.520	2.5	209338.210	3.5	270.4450	76.00	-.19	13308.491	0.0	50284.586	0.0
270.1710	71.01	.63	14115.066	0.0	51128.661	0.0	270.4566	29.01	-3.59	88605.160	1.0	125568.700	1.0
270.1752	26.02	-3.71	87901.870	3.0	124903.920	2.0	270.4572	26.01	-2.04	25981.650	3.5	62949.120	3.5
270.1767	10.00	-3.76	134041.840	2.0	171043.690	2.0	270.4605	25.01	-.66	44899.820	3.0	81862.840	4.0
270.1770	22.00	-4.92	6742.757	4.0	43744.550	4.0	270.4657	27.00	-5.66	4142.660	3.5	41104.960	2.5
270.1773	24.01	-.92	39877.280	3.5	76879.030	3.5	270.4676	23.01	-3.30	13511.710	1.0	50473.760	1.0
270.1870	42.01	.12	25891.064	0.0	62902.467	0.0	270.4708	23.00	-4.46	323.420	3.5	37285.030	4.5
270.1900	63.01	-.73	0.000	0.0	37010.992	0.0	270.4717	24.01	-.27	49706.470	2.5	86667.950	1.5
270.1905	26.00	-.90	20641.110	4.0	57641.060	3.0	270.4744	24.00	-1.00	24200.230	6.0	61161.350	5.0
270.1925	25.01	-4.03	53597.130	2.0	90596.800	2.0	270.4859	20.02	-.46	245611.880	0.0	282571.430	1.0
270.1931	23.01	-2.91	20343.000	2.0	57342.590	2.0	270.4930	42.01	.21	32827.611	0.0	69797.144	0.0
270.1942	22.02	-1.35	38197.980	2.0	75197.430	2.0	270.4930	77.00	-.77	10485.478	0.0	47455.011	0.0
270.1975	24.00	-.66	25038.610	5.0	62037.600	5.0	270.5026	25.01	-2.70	36427.890	0.0	73385.150	1.0
270.1983	24.00	-1.53	8307.570	4.0	45306.450	5.0	270.5115	26.01	-3.02	62962.260	1.5	99918.300	1.5
270.2009	27.01	-.35	49348.200	4.0	86346.730	3.0	270.5122	26.02	.41	147291.210	2.0	184247.160	2.0
270.2030	26.01	-2.67	62689.960	2.5	99688.200	3.5	270.5222	24.01	-1.86	31351.150	2.5	68305.730	1.5
270.2079	26.00	-.920	12560.933	3.0	49558.500	4.0	270.5222	23.01	-1.71	0.000	0.0	36954.580	1.0
270.2092	14.02	-2.43	207874.090	0.0	244871.470	1.0	270.5240	42.00	-.51	11372.710	0.0	48338.007	0.0
270.2110	74.01	1.11	13308.491	0.0	50316.607	0.0	270.5243	23.03	-1.35	255463.300	2.0	292417.600	3.0
270.2185	23.01	-.64	208.890	3.0	37205.010	3.0	270.5280	63.01	-1.26	0.000	0.0	36964.750	0.0
270.2200	41.01	-.10	725.918	0.0	37732.601	0.0	270.5361	25.01	-3.63	33278.390	3.0	70231.070	2.0
270.2212	23.01	-2.46	18353.890	3.0	55349.630	3.0	270.5367	24.02	-3.58	57422.100	4.0	94374.700	4.0
270.2231	25.01	-.50	64493.830	4.0	101489.310	5.0	270.5399	26.02	-4.10	87901.870	3.0	124854.040	3.0
270.2318	28.01	-3.64	98467.250	3.5	135461.550	2.5	270.5403	28.01	-4.15	93528.440	3.5	130480.550	3.5
270.2339	9.04	-.88	823382.000	2.5	860376.000	1.5	270.5407	27.00	-2.14	7442.410	3.5	44394.470	3.5
270.2400	78.00	-.17	725.918	0.0	37730.062	0.0	270.5414	24.00	-.32	24056.110	5.0	61008.070	5.0
270.2449	26.00	-1.23	19390.165	6.0	56382.664	5.0	270.5433	28.01	-4.01	98561.220	2.5	135512.920	2.5
270.2464	27.01	-1.81	24267.800	1.0	61260.100	2.0	270.5460	28.00	-3.29	3409.925	2.0	40361.254	3.0
270.2520	41.01	-.39	1209.863	0.0	38212.364	0.0	270.5525	23.01	-4.71	18353.890	3.0	55304.340	4.0
270.2520	74.00	.55	19438.462	0.0	56440.963	0.0	270.5556	25.01	-.66	29951.120	1.0	66901.140	2.0
270.2529	24.00	-.32	24200.230	6.0	61191.640	6.0	270.5610	72.00	-.48	0.000	0.0	36960.242	0.0
270.2562	10.00	-3.06	134041.840	2.0	171032.790	3.0	270.5630	25.01	-.77	64518.570	5.0	101467.580	6.0
270.2630	56.00	-2.09	0.000	0.0	37000.995	0.0	270.5630	45.01	.68	25245.804	0.0	62205.773	0.0
270.2632	28.01	-4.83	92792.080	3.5	129782.070	3.5	270.5650	25.02	-2.19	97000.800	4.5	133949.540	4.5
270.2638	10.01	-2.21	281171.380	2.5	318161.290	2.5	270.5707	24.01	-2.62	49706.470	2.5	86654.430	2.5
270.2651	26.02	-.37	147326.850	4.0	184316.580	3.0	270.5708	24.00	-3.22	8307.570	4.0	45255.510	3.0
270.2660	10.01	-1.88	281171.380	2.5	318160.990	3.5	270.5725	24.00	-.84	7927.470	2.0	44875.190	2.0
270.2673	24.00	-.75	24940.610	2.0	61930.050	3.0	270.5732	25.01	.49	27570.950	5.0	64518.570	5.0
270.2689	28.01	-2.70	99559.330	2.5	136548.550	2.5	270.5823	25.02	-4.47	136888.700	1.5	173835.070	2.5
270.2697	23.00	-6.56	2311.370	3.5	39300.480	2.5	270.5885	23.02	-3.12	110181.470	2.5	147127.000	4.5
270.2792	28.01	-2.66	99559.330	2.5	136547.130	3.5	270.5890	78.00	-.26	806.575	0.0	37762.992	0.0
270.2800	73.01	-.51	0.000	0.0	36998.668	0.0	270.5939	24.01	-3.57	68477.110	4.5	105421.900	5.5
270.2805	16.02	-.70	172785.770	1.0	209773.400	0.0	270.6008	26.00	-.05	19390.165	6.0	56334.010	6.0
270.2830	44.00	-.12	7985.094	0.0	44983.351	0.0	270.6010	74.00	-1.33	3306.958	0.0	40261.736	0.0
270.2830	76.00	-.21	12905.203	0.0	49903.460	0.0	270.6023	24.01	-.19	49838.430	4.5	86782.070	3.5
270.2885	25.01	-3.60	44745.460	2.0	81732.000	1.0	270.6035	28.01	-3.28	100619.260	4.5	137562.740	3.5
270.2906	28.01	-2.88	29593.460	.5	66579.710	1.5	270.6035	28.01	-3.76	99132.780	5.5	136076.260	4.5
270.2941	10.01	-2.34	281171.380	2.5	318157.150	3.5	270.6060	75.00	-.73	14921.641	0.0	51879.737	0.0
270.2975	24.01	-1.00	49706.470	2.5	86691.770	2.5	270.6072	28.01	-4.29	100592.980	3.5	137535.960	3.5
270.2988	25.01	-.07	56883.380	1.0	93868.500	1.0	270.6094	25.01	-1.30	29951.120	1.0	66893.790	1.0
270.2988	24.00	-2.83	24093.160	2.0	61078.280	3.0	270.6110	28.01	-2.58	93528.440	3.5	130470.900	4.5
270.3009	18.01	-3.81	172213.800	1.5	209198.630	2.5	270.6116	25.01	-1.86	66893.790	1.0	103836.170	2.0
270.3015	24.01	-1.75	33694.470	5.5	70679.220	4.5	270.6120	42.00	-.24	11050.080	0.0	48003.356	0.0
270.3031	10.01	-3.11	280797.260	2.5	317781.790	1.5	270.6121	23.01	-7.12	25191.080	2.0	62133.390	3.0
270.3042	22.00	-5.42	6598.749	2.0	43583.140	3.0	270.6144	25.00	-1.33	23818.870	.5	60760.870	1.5
270.3058	10.01	-3.16	280797.260	2.5	317781.420	2.5	270.6164	28.01	-2.46	93390.060	2.5	130331.780	1.5
270.3060	73.00	-1.33	1935.780	0.0	38930.889	0.0	270.6167	23.01	-.40	208.890	3.0	37150.570	4.0
270.3062	25.01	-.58	49465.130	3.0	86449.240	4.0	270.6170	40.00	-.83	0.000	0.0	36952.594	0.0
270.3147	28.01	-2.16	99559.330	2.5	136542.280	3.5	270.6195	28.02	-4.14	79250.800	4.0	116192.100	4.0
270.3149	23.01	-1.76	13490.840	2.0	50473.760	1.0	270.6203	26.02	-.16	147305.970	3.0	184247.160	2.0
270.3164	26.01	-3.50	67000.630	2.5	103983.350	3.5	270.6320	25.01	-3.55	64549.720	6.0	101489.310	5.0
270.3186	29.01	-.47	73101.870	1.0	110084.290	1.0	270.6344	26.01	-2.32	43238.610	2.5	80177.870	1.5
270.3208	24.01	-1.09	54444.190	3.5	91426.310	2.5	270.6369	25.01	-1.03	66929.220	2.0	103868.140	1.0
270.3222	25.01	-.20	29919.220	2.0	66901.140	2.0	270.6400	13.01	-1.96	105424.300	0.0	142362.800	1.0
270.3329	25.01	-2.29	64518.570	5.0	10								

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
270.6909	22.00	-8.24	6742.757	4.0	43674.310	4.0
270.6984	28.01	-3.00	100592.980	3.5	137523.510	3.5
270.7007	25.02	-3.26	94771.470	2.5	131701.690	1.5
270.7049	22.01	-1.30	16625.250	1.5	53554.900	2.5
270.7128	26.01	-2.28	36126.410	1.5	73054.970	2.5
270.7230	45.00	-1.54	2581.041	0.0	39519.166	0.0
270.7285	26.02	-4.17	105929.160	3.0	142855.590	4.0
270.7295	27.01	-1.19	48555.900	5.0	85482.190	4.0
270.7298	28.01	-3.28	100592.980	3.5	137519.230	2.5
270.7335	25.02	-2.67	97023.800	3.5	133949.540	4.5
270.7346	25.01	-2.17	65754.500	6.0	102680.090	5.0
270.7390	28.01	-3.29	53601.190	1.5	90526.180	2.5
270.7398	22.01	-1.98	32025.500	2.5	68950.390	3.5
270.7420	76.00	-0.03	11292.053	0.0	48227.586	0.0
270.7433	13.01	-2.08	105438.400	1.0	142362.800	1.0
270.7433	13.01	-1.60	105438.400	1.0	142362.800	2.0
270.7463	25.01	-4.13	55115.800	2.0	92039.800	2.0
270.7536	9.03	-1.69	551098.000	2.0	588021.000	2.0
270.7545	25.01	-1.17	27570.950	5.0	64493.830	4.0
270.7573	21.01	-1.31	27443.650	2.0	64366.150	2.0
270.7599	22.00	-5.27	6661.003	3.0	43583.140	3.0
270.7605	23.00	-2.20	553.020	4.5	37475.080	3.5
270.7696	24.00	-4.44	23163.270	0.0	60084.090	1.0
270.7712	25.03	-4.37	130969.500	3.0	167890.100	2.0
270.7753	24.01	-4.06	29952.080	5.0	66872.120	5.0
270.7830	41.01	-1.01	9436.930	0.0	46366.870	0.0
270.7844	17.01	-3.78	131754.800	1.0	168673.800	2.0
270.7864	23.01	-1.30	36.050	1.0	36954.580	1.0
270.7880	74.00	-0.02	19115.832	0.0	56045.090	0.0
270.7905	21.00	-1.41	168.340	2.5	37086.310	1.5
270.7913	25.01	-1.28	64549.720	6.0	101467.580	6.0
270.7920	25.01	-1.94	52653.270	4.0	89571.030	3.0
270.7962	27.01	-3.69	27484.300	3.0	64401.500	4.0
270.7970	44.00	-1.34	2016.438	0.0	38944.469	0.0
270.7981	27.00	-3.90	137955.520	2.5	50712.450	2.5
270.7986	23.00	-6.33	2424.890	4.5	39341.760	3.5
270.7990	15.01	-1.22	101636.490	1.0	138553.300	2.0
270.7995	27.01	-1.23	28111.900	2.0	65028.650	1.0
270.7998	28.01	-3.38	100619.260	4.5	137535.960	3.5
270.8008	28.01	-3.56	100619.260	4.5	137535.960	3.5
270.8025	24.00	-2.86	24282.340	4.0	61198.680	3.0
270.8053	24.00	-1.33	7750.780	0.0	44666.740	1.0
270.8054	18.01	-1.41	172335.520	2.5	209251.460	3.5
270.8094	25.01	-1.08	44138.960	1.0	81054.350	2.0
270.8130	58.01	-1.45	5081.424	0.0	42007.273	0.0
270.8160	27.02	-4.58	131098.200	4.5	168012.700	5.5
270.8164	24.00	-2.66	21810.840	1.0	58725.280	1.0
270.8180	74.00	-1.31	16292.819	0.0	53217.986	0.0
270.8180	90.01	-1.95	1451.835	0.0	38377.002	0.0
270.8182	25.02	-3.90	140563.030	3.5	177477.230	2.5
270.8190	69.01	-2.26	161.315	0.0	37086.436	0.0
270.8193	25.01	-1.35	44745.460	2.0	81659.500	3.0
270.8264	25.01	-2.21	44899.820	3.0	81812.900	2.0
270.8267	18.01	-1.62	172335.520	2.5	209248.550	2.5
270.8349	28.01	-3.88	100619.260	4.5	137531.180	4.5
270.8360	9.02	-1.81	390077.800	2.5	426989.570	3.5
270.8402	25.02	-4.92	137137.690	1.5	174048.890	2.5
270.8430	26.01	-1.66	62662.300	5.5	99573.110	4.5
270.8437	22.00	-5.79	6556.828	1.0	43467.550	2.0
270.8451	25.01	-1.32	27583.300	4.0	64493.830	4.0
270.8528	28.01	-4.78	79823.030	3.5	116732.510	2.5
270.8549	27.00	-3.08	14036.280	1.5	50945.470	5.0
270.8580	74.00	-1.61	15002.299	0.0	51922.013	0.0
270.8591	25.01	-3.91	71263.920	1.0	108172.540	1.0
270.8593	17.01	-1.34	149952.400	1.0	186861.000	2.0
270.8635	28.01	-1.33	55417.830	3.5	92325.850	3.5
270.8635	28.01	-3.87	96535.870	3.5	133443.890	2.5
270.8687	10.01	-2.37	246415.040	1.5	283322.350	1.5
270.8714	25.01	-1.55	66929.220	2.0	103836.170	2.0
270.8720	26.01	-2.61	26055.400	2.5	62962.260	1.5
270.8722	27.00	-3.50	5075.830	1.5	41982.660	1.5
270.8728	18.02	-3.22	209127.040	1.0	246033.790	2.0
270.8744	25.01	-4.15	71263.920	1.0	108170.450	2.0
270.8784	24.01	-1.21	33521.230	3.5	70427.220	3.5
270.8790	74.00	-1.84	1613.150	0.0	38530.002	0.0
270.8811	27.00	-1.20	16467.900	4.5	53373.530	3.5
270.8813	25.01	-1.51	27588.230	3.0	64493.830	4.0
270.8813	17.01	-3.22	131768.000	2.0	168673.600	2.0
270.8822	9.02	-2.43	389525.550	1.5	426431.030	5.0
270.8840	70.01	-1.92	32908.268	0.0	69824.439	0.0
270.8847	26.02	-4.35	142855.590	4.0	179760.720	3.0
270.8862	27.01	-1.30	28111.900	2.0	65016.830	2.0
270.8862	8.02	-3.20	329581.980	1.0	366486.910	1.0
270.8871	27.02	-4.06	136290.100	3.5	173194.900	2.5
270.8871	27.02	-4.06	136290.100	3.5	173194.900	2.5
270.8889	27.01	-1.35	50035.900	3.0	86940.460	2.0
270.8896	24.00	-2.16	24056.110	5.0	60960.580	4.0
270.8913	23.01	-1.50	32040.760	2.0	68945.000	3.0
270.8945	17.01	-3.29	145468.500	1.0	182372.300	1.0
270.8960	24.02	-2.72	120765.300	5.0	157668.900	6.0
270.8976	10.01	-3.58	276276.850	1.5	313180.230	1.5
270.9024	18.02	-2.76	209127.040	1.0	246029.760	1.0
270.9032	24.00	-2.83	24282.340	4.0	61184.950	5.0
270.9033	17.01	-2.63	110295.800	4.0	147198.400	4.0
270.9045	24.01	-2.43	32603.730	2.5	69506.160	3.5
270.9048	26.02	-4.32	142855.590	4.0	179757.980	4.0
270.9051	26.01	-1.45	25787.960	1.5	62689.960	2.5
270.9055	25.01	-1.16	66901.140	2.0	103803.440	3.0
270.9107	22.00	-4.99	6842.964	5.0	43744.550	4.0
270.9109	16.02	-2.31	169770.040	1.0	206671.610	2.0
270.9121	17.01	-2.63	110297.000	3.0	147198.400	4.0
270.9200	28.01	-2.99	98561.220	2.5	135461.550	2.5
270.9200	44.00	-1.11	8469.040	0.0	45380.305	0.0
270.9229	24.01	-4.13	49838.430	4.5	86738.360	3.5
270.9230	81.00	-1.32	7743.122	0.0	44653.979	0.0
270.9246	26.02	-1.24	147281.390	1.0	184181.390	1.0
270.9263	25.02	-4.64	136935.600	5.0	173835.070	5.0
270.9270	73.01	-1.09	9678.902	0.0	46589.214	0.0
270.9302	24.01	-1.08	33418.110	2.5	70317.040	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
270.9307	25.01	-1.59	49291.310	3.0	86190.180	2.0
270.9313	24.00	-4.17	24299.890	2.0	61198.680	3.0
270.9314	27.00	-3.44	4142.660	3.5	41041.430	3.5
270.9330	40.00	-1.87	564.603	0.0	37474.097	0.0
270.9363	25.01	-2.11	53698.700	2.0	90596.800	2.0
270.9377	26.01	-2.54	8391.920	2.5	45289.840	1.5
270.9385	30.02	-2.86	220668.300	2.0	257566.100	1.0
270.9410	58.01	-1.38	5646.026	0.0	42554.430	0.0
270.9426	9.02	-1.52	390834.600	2.5	427731.850	2.5
270.9444	30.02	-3.59	263111.700	0.0	300008.700	1.0
270.9463	25.02	-4.04	97239.860	6.5	134136.600	7.5
270.9580	74.01	-1.91	14840.984	0.0	51747.073	0.0
270.9584	13.01	-3.26	105467.700	2.0	142362.800	2.0
270.9584	13.01	-2.08	105467.700	2.0	142362.800	2.0
270.9584	13.01	-1.33	105467.700	2.0	142362.800	3.0
270.9610	24.00	-3.35	24303.940	3.0	61198.680	3.0
270.9611	25.01	-1.61	41190.470	6.0	78085.200	5.0
270.9625	28.01	-3.63	52205.950	3.5	89100.490	3.5
270.9630	32.00	-1.11	483.945	0.0	37389.353	0.0
270.9634	28.01	-1.72	72375.420	1.5	109269.830	1.5
270.9659	27.00	-4.18	5075.830	1.5	41969.900	5.0
270.9669	23.01	-3.46	25191.080	2.0	62085.020	2.0
270.9693	26.00	-2.08	23783.617	5.0	60677.230	5.0
270.9734	27.00	-5.83	5075.830	1.5	41968.890	2.5
270.9761	10.01	-4.25	301801.090	3.5	338693.780	4.5
270.9785	29.01	-4.57	114511.440	1.0	151403.800	2.0
270.9819	17.01	-1.77	149952.400	1.0	186844.300	1.0
270.9841	7.01	-1.79	174212.030	2.0	211103.630	3.0
270.9860	76.00	-1.07	10082.190	0.0	46984.465	0.0
270.9920	26.01	-1.19	36252.960	2.5	73143.480	3.5
270.9945	26.02	-1.07	147291.210	2.0	184181.390	1.0
270.9971	25.01	-1.33	27583.300	4.0	64473.130	3.0
270.9979	26.01	-2.45	26055.400	2.5	62945.120	3.5
270.9990	63.00	-1.13	0.000	0.0	36900.505	0.0
270.9995	24.02	-4.74	120747.800	4.0	157637.300	3.0
271.0044	27.00	-4.79	14036.280	1.5	50925.110	1.5
271.0054	26.01	-1.14	65696.110	4.5	102584.810	5.5
271.0080	24.01	-3.60	49706.470	2.5	86594.820	1.5
271.0099	24.01	-1.76	68477.110	4.5	105365.200	4.5
271.0130	73.00	-1.05	3871.561	0.0	40770.160	0.0
271.0149	25.02	-2.89	100001.300	2.5</		

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP	WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
271.2033	26.01	-2.56	62962.260	1.5	99824.040	2.5	271.5470	75.00	.49	11695.340	0.0	48521.377	0.0
271.2140	72.01	-7.70	12017.970	0.0	48889.223	0.0	271.5472	25.01	-1.45	53781.700	3.0	90596.800	2.0
271.2149	25.01	-2.22	47073.560	3.0	83933.770	3.0	271.5494	23.00	-4.40	0.000	1.5	36814.800	1.5
271.2149	24.00	-7.56	25177.390	4.0	62037.600	5.0	271.5500	41.00	-8.87	2742.356	0.0	39567.987	0.0
271.2300	24.01	-6.68	12148.000	2.5	49006.150	1.5	271.5500	74.00	-8.29	6129.972	0.0	42955.603	0.0
271.2311	26.01	-7.10	61587.240	5.5	98445.240	4.5	271.5515	24.00	-1.46	24056.110	5.0	60870.630	4.0
271.2349	23.00	-4.80	323.420	3.5	37180.900	4.5	271.5538	15.01	-8.04	8882.600	2.0	45696.800	2.0
271.2350	42.01	.39	32988.926	0.0	69857.324	0.0	271.5540	92.01	-8.89	2258.411	0.0	39083.499	0.0
271.2385	9.03	-6.68	551366.000	3.0	588223.000	3.0	271.5596	26.01	-2.10	33501.320	3.5	70314.740	4.5
271.2386	26.01	-1.01	25805.320	4.5	62662.300	5.5	271.5640	76.00	.18	14276.381	0.0	51100.113	0.0
271.2420	40.01	-7.71	241.973	0.0	37109.420	0.0	271.5656	23.01	-5.56	106.630	2.0	36919.230	3.0
271.2420	72.01	-7.55	4839.451	0.0	41706.898	0.0	271.5688	25.01	-7.77	70150.390	1.0	106962.560	1.0
271.2464	24.00	-9.98	7810.820	1.0	44666.740	1.0	271.5690	41.00	-1.08	1129.205	0.0	37952.259	0.0
271.2480	75.00	-7.58	14518.354	0.0	51384.985	0.0	271.5698	25.01	-2.26	52653.270	4.0	89465.300	4.0
271.2507	24.01	-1.49	30156.940	3.5	67012.280	2.5	271.5700	23.03	-1.57	226796.300	2.0	263608.300	3.0
271.2554	8.01	-2.87	228723.300	2.5	265578.000	3.5	271.5717	24.00	-3.76	20523.690	4.0	57335.470	4.0
271.2650	25.03	-1.77	152700.500	4.0	189553.900	5.0	271.5724	24.00	-4.18	24093.160	2.0	60904.840	3.0
271.2660	70.01	-7.51	30407.885	0.0	67272.070	0.0	271.5735	24.00	-2.96	20523.940	5.0	57335.470	4.0
271.2740	77.00	-7.70	6291.287	0.0	43154.385	0.0	271.5748	23.01	-1.77	339.210	4.0	37150.570	4.0
271.2807	23.00	-4.55	323.420	3.5	37174.680	3.5	271.5770	75.00	-1.19	14115.066	0.0	50937.035	0.0
271.2824	25.02	-2.99	94850.660	1.5	131701.690	1.5	271.5863	27.02	-3.55	91715.100	2.5	128524.900	2.5
271.2862	24.01	-8.82	40228.440	5.5	77078.960	5.5	271.5880	41.01	.40	12985.861	0.0	49806.339	0.0
271.2871	25.02	-4.91	100085.200	1.5	136935.600	.5	271.5927	23.00	-3.50	553.020	4.5	37361.950	4.5
271.2895	26.02	-6.68	86847.110	2.0	123697.180	2.0	271.5947	28.01	-2.83	99040.750	1.5	135849.410	2.5
271.2945	25.01	-2.54	71323.150	2.0	108172.540	1.0	271.5987	27.00	-8.01	16467.900	4.5	53276.020	4.5
271.2957	26.02	-4.38	84159.550	4.0	121008.780	3.0	271.5989	24.01	-1.66	33619.130	4.5	70427.220	3.5
271.3020	75.00	-7.34	16534.792	0.0	53394.085	0.0	271.5991	24.00	-3.35	24299.890	2.0	61107.950	2.0
271.3030	26.01	-2.02	33466.500	4.5	70314.740	4.5	271.5991	24.00	-1.68	20519.600	6.0	57327.660	5.0
271.3037	23.01	-2.34	18293.870	2.0	55142.010	3.0	271.6008	24.00	-1.15	24200.230	6.0	61008.070	5.0
271.3051	23.01	-1.66	106.630	2.0	36954.580	1.0	271.6036	25.01	-3.99	29869.110	2.0	66676.560	2.0
271.3098	10.01	-1.35	281332.550	.5	318179.870	1.5	271.6092	27.01	-2.23	27902.500	4.0	64709.200	5.0
271.3099	25.01	-2.89	71323.150	2.0	108170.450	2.0	271.6100	41.00	-6.62	1532.493	0.0	38349.989	0.0
271.3130	78.00	-7.55	10001.532	0.0	46859.331	0.0	271.6103	22.00	-5.34	6661.003	3.0	43467.550	2.0
271.3160	75.00	-7.43	71180.052	0.0	54037.443	0.0	271.6141	25.01	-7.73	70150.390	1.0	106956.420	0.0
271.3162	25.00	-1.88	23549.200	2.5	60395.640	1.5	271.6152	26.02	-4.16	142855.590	4.0	179661.480	3.0
271.3190	44.00	-7.11	9517.587	0.0	46374.571	0.0	271.6169	24.00	-7.31	8307.570	4.0	45113.220	3.0
271.3367	16.02	-2.66	170067.310	2.0	206910.970	3.0	271.6212	26.01	-7.25	27620.390	2.5	64425.460	2.5
271.3380	8.02	-2.51	329643.430	0.0	366486.910	1.0	271.6219	25.00	-2.28	23296.670	3.5	60101.650	2.5
271.3441	26.01	-2.22	61726.090	3.5	98588.750	3.5	271.6245	22.01	-1.90	8744.270	2.5	45548.900	1.5
271.3500	24.00	-2.05	24833.860	3.0	61675.720	2.0	271.6253	26.00	-5.55	19788.248	4.0	56592.760	4.0
271.3507	24.01	-2.53	51584.440	1.5	88426.200	.5	271.6290	24.00	-3.22	24303.940	3.0	61107.950	2.0
271.3508	29.01	-3.32	71493.680	2.0	108335.430	2.0	271.6293	24.00	-4.23	20523.690	4.0	57327.660	5.0
271.3510	42.01	.40	13389.148	0.0	50241.785	0.0	271.6296	21.01	-3.95	2540.970	2.0	39344.900	2.0
271.3573	24.00	-3.76	24282.340	4.0	61123.200	4.0	271.6310	41.01	-9.92	80.658	0.0	36895.307	0.0
271.3578	9.03	-2.15	460640.600	2.0	497481.400	1.0	271.6312	24.00	-2.78	20523.940	5.0	57327.660	5.0
271.3608	22.00	-4.94	6742.757	4.0	43583.140	3.0	271.6320	90.01	-4.44	7904.437	0.0	44718.951	0.0
271.3622	26.02	-4.84	144968.500	4.0	181808.700	5.0	271.6320	74.01	.89	14518.354	0.0	51332.868	0.0
271.3659	26.02	-4.91	142908.480	5.0	179748.170	5.0	271.6328	25.02	-2.40	100085.200	1.5	136888.700	1.5
271.3677	28.01	-2.54	98561.220	2.5	135400.670	3.5	271.6379	27.01	-4.21	28111.900	2.0	64914.710	2.0
271.3726	10.01	-2.50	280989.530	1.5	317828.320	.5	271.6419	26.00	-1.81	19621.004	5.0	56423.276	4.0
271.3752	22.01	-5.63	8710.470	1.5	45548.900	1.5	271.6430	28.01	-1.93	75917.630	3.5	112719.750	3.5
271.3774	22.01	-3.94	31490.820	3.5	68328.950	4.5	271.6438	26.01	-1.58	36252.960	2.5	73054.970	2.5
271.3786	10.01	-4.80	301855.710	2.5	338693.680	3.5	271.6445	23.02	-4.15	110181.470	2.5	146983.380	2.5
271.3827	25.01	-1.70	49465.130	3.0	86302.550	3.0	271.6446	25.01	-1.35	47073.560	3.0	83875.460	4.0
271.3840	72.00	-8.87	2339.068	0.0	39187.224	0.0	271.6580	26.01	.27	62293.200	6.5	99093.290	5.5
271.3841	25.02	-4.99	139857.840	4.5	176695.060	4.5	271.6608	23.03	-4.42	220343.500	1.0	257143.200	2.0
271.3906	26.00	-9.88	12968.552	2.0	49804.900	3.0	271.6620	41.01	.10	1209.863	0.0	38020.311	0.0
271.3915	25.01	-7.55	56883.380	1.0	93719.600	0.0	271.6652	24.00	-7.77	25177.390	4.0	61976.500	4.0
271.3940	49.00	-8.82	2177.753	0.0	39024.551	0.0	271.6691	26.01	-1.29	7955.240	3.5	44753.820	3.5
271.4028	10.01	-4.95	280947.100	1.5	317781.790	1.5	271.6750	75.00	-4.48	16212.162	0.0	53020.849	0.0
271.4034	25.02	-2.77	100054.100	.5	136888.700	1.5	271.6797	25.01	-3.36	29889.310	3.0	66686.450	3.0
271.4055	10.01	-4.61	280947.100	1.5	317781.420	2.5	271.6800	76.00	-4.47	10969.423	0.0	47777.432	0.0
271.4058	26.00	-1.08	20874.482	3.0	57708.760	2.0	271.6830	23.03	-2.88	226796.300	2.0	263593.000	2.0
271.4123	23.03	-2.32	217990.700	1.0	254824.100	1.0	271.6854	9.02	-2.57	453343.620	2.5	490140.000	1.5
271.4128	22.00	-4.90	11531.760	2.0	48365.090	3.0	271.6854	9.02	-1.43	453343.620	2.5	490140.000	2.5
271.4138	17.02	.24	217850.200	2.5	254683.400	2.5	271.6882	9.04	-5.51	823382.000	2.5	860178.000	2.5
271.4200	41.00	-1.00	2742.356	0.0	39585.625	0.0	271.6886	24.00	-4.51	24282.340	4.0	61078.280	3.0
271.4210	23.01	-1.36	208.890	3.0	37041.110	2.0	271.6896	24.01	-2.98	33521.230	3.5	70317.040	2.5
271.4260	40.01	-7.20	4436.164	0.0	41278.618	0.0	271.6933	25.02	-2.65	100001.300	2.5	136796.610	2.5
271.4293	8.01	-4.30	228746.900	3.5	265578.000	3.5	271.6938	25.02	-3.23	94906.450	.5	131701.690	1.5
271.4300	27.02	-4.91	73540.200	3.5	110371.200	2.5	271.6975	28.01	-3.19	98467.250	3.5	135261.990	4.5
271.4343	27.00	-1.85	15184.040	2.5	52014.450	1.5	271.6980	63.01	-6.60	1613.150	0.0	38418.721	0.0
271.4381	17.01	-4.60	110295.800	4.0	147125.700	3.0	271.6992	25.01	-5.50	67008.930	3.0	103803.440	3.0
271.4402	28.01	-4.25	78955.450	1.5	115785.060	1.5	271.7031	25.00	-1.17	25281.040	2.5	62075.020	2.5
271.4407	26.01	-7.37	7955.240	3.5	44784.780	2.5	271.7040	24.01	-1.26	32844.920	1.5	69638.770	1.5
271.4410	45.00	-4.14	11856.655	0.0	48697.073	0.0	271.7103	25.02	-4.01	139902.060	5.5	176695.060	4.5
271.4432	27.01	-2.00	11321.500	2.0	48150.700	3.0	271.7139	9.02	-1.17	395268.130	1.5	432060.640	1.5
271.4447	27.01	-3.86	10708.100	3.0	47537.100	2.0	271.7158	10.01	-2.71	280989.530	1.5	317781.790	1.5
271.4470													

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
271.7921	26.01	-0.94	61512.670	4.5	98294.600	5.5
271.7972	18.01	-2.70	172816.210	5.5	209597.450	1.5
271.7985	26.01	-1.31	42658.230	3.5	79439.300	3.5
271.8040	74.01	1.01	16454.134	0.0	53245.351	0.0
271.8041	25.01	-1.88	71390.140	3.0	108170.450	2.0
271.8050	24.00	-0.65	7593.160	2.0	44373.340	3.0
271.8065	24.00	-0.67	8095.210	3.0	44875.190	2.0
271.8065	8.02	-0.83	366594.010	2.0	403374.000	3.0
271.8070	24.01	-0.74	33619.130	4.5	70399.040	5.5
271.8070	27.01	-1.18	47807.200	4.0	84587.120	4.0
271.8085	26.02	-0.92	88663.870	4.0	125443.580	4.0
271.8106	24.00	-3.52	24286.540	1.0	61065.960	1.0
271.8108	9.03	-3.96	423606.400	1.0	460385.800	1.0
271.8117	27.01	-2.15	48388.100	2.0	85167.380	3.0
271.8128	9.02	-0.68	390210.430	3.5	426989.570	3.5
271.8183	24.00	-4.40	24299.890	2.0	61078.280	3.0
271.8221	18.01	-0.13	173347.830	1.5	210125.700	2.5
271.8228	28.01	-1.78	71770.830	2.5	108548.610	1.5
271.8286	9.03	-0.53	519539.000	1.0	556316.000	2.0
271.8300	24.01	-0.25	31083.110	1.5	67859.910	5.5
271.8320	9.02	-3.63	427545.310	1.5	464321.840	2.5
271.8350	70.01	-0.02	31779.063	0.0	68566.085	0.0
271.8380	73.00	-0.62	5968.656	0.0	42755.272	0.0
271.8384	25.01	-0.81	29869.110	2.0	66644.780	1.0
271.8390	28.01	-1.28	76402.030	2.5	113177.610	3.5
271.8409	24.01	-0.28	33619.130	4.5	70394.460	4.5
271.8436	26.00	-0.59	7985.783	2.0	44760.739	1.0
271.8448	27.01	-2.91	13261.100	2.0	50035.900	3.0
271.8455	28.02	-0.34	75123.800	5.0	111898.500	4.0
271.8482	24.00	-0.36	24303.940	3.0	61078.280	3.0
271.8495	26.02	-0.81	145618.390	2.0	182392.550	2.0
271.8499	24.01	-3.79	31531.620	1.5	68305.730	1.5
271.8502	24.00	-0.66	24282.340	4.0	61056.410	4.0
271.8510	72.01	-0.08	14276.381	0.0	51061.237	0.0
271.8540	45.00	-0.51	5565.369	0.0	42349.819	0.0
271.8551	24.02	-3.69	56992.200	3.0	93765.600	2.0
271.8590	72.00	-0.92	0.000	0.0	36783.774	0.0
271.8613	26.01	-1.94	27314.930	3.5	64087.500	2.5
271.8632	26.01	-0.09	50157.610	4.5	86929.920	3.5
271.8638	22.02	-3.13	38425.190	3.0	75197.430	2.0
271.8706	23.03	-0.55	255146.800	2.0	291918.100	2.0
271.8710	76.00	-0.10	15324.929	0.0	52107.079	0.0
271.8725	25.01	-2.81	68284.380	3.0	105055.430	2.0
271.8770	25.01	-0.40	49291.310	3.0	86061.750	3.0
271.8778	29.01	-0.52	73595.640	1.0	110365.980	2.0
271.8780	17.02	-0.19	217913.100	1.5	254683.400	2.5
271.8785	9.02	-1.60	453369.770	1.5	490140.000	1.5
271.8785	9.02	-2.81	453369.770	1.5	490140.000	2.5
271.8889	16.02	-0.39	169770.040	1.0	206538.870	1.0
271.8900	51.00	-0.09	18309.257	0.0	55088.837	0.0
271.8900	74.00	-0.02	2903.671	0.0	39683.251	0.0
271.8901	28.01	-0.57	75917.630	3.5	112686.300	2.5
271.9008	25.01	-0.48	29919.220	2.0	66686.450	3.0
271.9011	25.00	-0.43	17451.520	2.5	54218.710	1.5
271.9024	26.01	-0.07	61527.590	6.5	98294.600	5.5
271.9024	10.03	-0.84	605417.000	2.5	642184.000	1.5
271.9028	26.00	-0.06	0.000	4.0	36766.950	3.0
271.9040	78.00	-0.37	806.575	0.0	37584.261	0.0
271.9056	26.00	-0.48	20874.482	3.0	57641.060	3.0
271.9072	28.01	-2.88	67880.160	2.5	104646.520	3.5
271.9093	24.00	-3.72	24299.890	2.0	61065.960	1.0
271.9113	21.00	-3.75	168.340	2.5	36934.150	1.5
271.9131	26.00	-0.70	23783.617	5.0	60549.180	5.0
271.9205	9.02	-0.60	427459.370	5.5	464223.930	1.5
271.9259	21.01	-2.49	27602.320	3.0	64366.150	2.0
271.9290	23.00	-3.18	0.000	1.5	36763.410	2.5
271.9293	26.01	-0.56	36252.960	2.5	73016.330	3.5
271.9307	25.01	-0.01	41182.530	7.0	77945.710	7.0
271.9329	24.01	-1.50	30307.600	1.5	67070.480	1.5
271.9330	74.00	-0.59	16292.819	0.0	53066.583	0.0
271.9335	23.00	-0.36	553.020	4.5	37315.830	5.5
271.9357	17.02	-0.78	217850.200	2.5	254612.700	1.5
271.9363	22.01	-2.35	8710.470	1.5	45472.890	5.5
271.9420	26.00	-0.12	19621.004	5.0	56382.664	5.0
271.9450	90.01	-0.81	8388.382	0.0	45160.523	0.0
271.9520	44.00	-0.58	7420.492	0.0	44191.687	0.0
271.9539	9.02	-3.22	427731.850	2.5	464491.890	3.5
271.9540	75.00	-0.64	16534.792	0.0	53305.716	0.0
271.9566	25.01	-2.79	44899.820	3.0	81659.500	3.0
271.9579	27.00	-2.41	7442.410	3.5	44201.920	2.5
271.9615	24.00	-0.81	20517.400	2.0	57276.420	3.0
271.9633	26.01	-0.57	46967.470	2.5	83726.240	3.5
271.9650	31.00	-0.66	806.575	0.0	37576.012	0.0
271.9676	25.01	-0.64	44521.520	4.0	81279.710	4.0
271.9684	24.01	-1.97	31117.590	2.5	67875.680	3.5
271.9695	15.01	-1.57	103166.370	1.0	139924.300	2.0
271.9736	25.01	-0.09	55759.270	3.0	92516.650	4.0
271.9739	25.01	-0.71	29919.220	2.0	66676.560	2.0
271.9769	23.01	-2.15	32040.760	2.0	68797.700	2.0
271.9786	17.01	-3.32	110297.000	3.0	147053.700	2.0
271.9849	10.01	-0.42	281025.940	2.5	317781.790	1.5
271.9860	74.00	-0.98	2903.671	0.0	39670.269	0.0
271.9867	25.01	-0.45	31661.720	3.0	68417.340	2.0
271.9875	9.02	-0.98	390976.350	1.5	427731.850	2.5
271.9875	13.01	-2.33	105424.300	0.0	142179.800	1.0
271.9877	10.01	-3.83	281025.940	2.5	317781.790	1.5
271.9895	25.01	-0.56	41190.470	6.0	77945.710	7.0
271.9930	90.01	-0.46	9356.272	0.0	46121.924	0.0
271.9971	17.01	-2.43	110299.500	2.0	147053.700	2.0
271.9980	58.01	-0.38	5726.684	0.0	42491.660	0.0
272.0009	25.01	-0.77	29889.310	3.0	66643.010	4.0
272.0020	41.00	-0.49	5887.999	0.0	42652.435	0.0
272.0040	76.00	-0.17	2661.698	0.0	39425.863	0.0
272.0067	24.01	-0.16	31117.590	2.5	67870.500	1.5
272.0074	25.01	-1.53	52373.180	3.0	89126.000	3.0
272.0080	24.00	-0.07	20523.690	4.0	57276.420	3.0
272.0086	24.00	-2.81	25177.390	4.0	61930.050	3.0
272.0100	24.00	-3.02	24303.940	3.0	61056.410	4.0
272.0157	17.01	-0.81	110302.000	1.0	147053.700	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
272.0170	42.00	-0.31	11372.710	0.0	48135.118	0.0
272.0183	18.01	-2.48	174820.930	5.5	211572.270	1.5
272.0195	26.00	-0.58	17550.180	3.0	54301.360	4.0
272.0231	25.02	-3.50	97000.800	4.5	133751.500	3.5
272.0234	25.02	-4.86	139944.400	3.5	176695.060	4.5
272.0248	24.01	-0.52	31117.590	2.5	67868.050	2.5
272.0260	41.01	-0.93	2984.328	0.0	39745.520	0.0
272.0363	26.02	-1.84	88694.670	5.0	125443.580	4.0
272.0385	25.00	-1.66	25285.430	4.5	62034.040	3.5
272.0450	77.00	-1.08	6291.287	0.0	43049.911	0.0
272.0490	19.02	-1.00	201165.000	2.5	237912.200	1.5
272.0520	26.00	-5.25	415.932	3.0	37162.729	3.0
272.0520	45.00	-0.36	13873.093	0.0	50630.772	0.0
272.0533	25.01	-0.35	52379.380	2.0	89126.000	3.0
272.0556	25.00	-1.04	25287.740	3.5	62034.040	3.5
272.0579	9.02	-2.39	452748.540	2.5	489494.530	3.5
272.0660	8.01	-4.29	228723.300	2.5	265468.200	1.5
272.0680	24.01	-0.65	32603.730	2.5	69348.360	1.5
272.0754	26.02	-1.96	93512.640	4.0	130256.270	5.0
272.0760	73.00	-0.61	1935.780	0.0	38690.216	0.0
272.0762	23.01	-2.54	11514.760	1.0	48258.280	0.0
272.0795	26.01	-0.65	62945.120	3.5	99688.200	3.5
272.0854	25.01	-2.84	52383.720	4.0	89126.000	3.0
272.0863	22.01	-3.61	32025.500	2.5	68767.660	1.5
272.0877	26.01	-0.94	50187.950	3.5	86929.920	3.5
272.0903	26.00	-0.24	415.932	3.0	37157.546	2.0
272.0919	13.01	-1.85	105438.400	1.0	142179.800	1.0
272.0954	27.00	-2.85	7442.410	3.5	44183.340	4.5
272.1077	24.00	-1.13	7927.470	2.0	44666.740	1.0
272.1261	27.01	-2.67	11651.310	2.0	48388.100	2.0
272.1329	25.01	-0.65	70231.070	2.0	106966.940	2.0
272.1331	25.02	-2.70	97000.800	4.5	133736.640	5.5
272.1341	28.01	-0.45	99340.550	3.5	136076.260	4.5
272.1385	24.00	-2.52	29490.610	2.0	61675.720	2.0
272.1440	16.02	-0.62	173191.730	2.0	209926.100	1.0
272.1500	15.01	-2.68	105224.830	0.0	141958.400	1.0
272.1560	44.00	-0.10	8952.985	0.0	45696.617	0.0
272.1592	18.01	-0.70	173393.380	2.5	210125.700	2.5
272.1608	30.02	-1.63	221343.600	2.0	258075.700	3.0
272.1615	23.00	-7.97	553.020	4.5	37285.030	4.5
272.1630	41.01	-1.12	0.000	0.0	36742.687	0.0
272.1644	20.00	-2.86	0.000	0.0	36731.615	1.0
272.1653	25.01	-0.41	70231.070	2.0	106962.560	1.0
272.1677	29.01	-0.97	73353.120	2.0	110084.290	1.0
272.1700	90.01	-0.27	6129.972	0.0	42871.714	0.0
272.1757	28.01	-2.49	68709.760	5.5	105439.850	1.5
272.1770	47.00	-0.59	30085.255	0.0	66826.052	0.0
272.1801	24.00	-0.42	23512.000	1.0	60241.500	0.0
272.1809	26.01	-1.43	25428.800	5.5	62158.190	4.5
272.1830	73.00	-0.56	5968.656	0.0	42708.643	0.0
272.1860	76.00	-0.18	4113.534	0.0	40853.116	0.0
272.1883	21.01	-1.16	27917.690	1.0	66464.080	1.0
272.1934	25.02	-2.92	97023.800	3.5	133751.500	3.5
272.1980	41.01	-0.04	725.918	0.0	37463.881	0.0
272.2035	24.00	-2.73	24093.160	2.0	60819.500	3.0
272.2040	26.00	-2.85	11976.239	4.0	48702.518	4.0
272.2058	26.01	-0.59	27314.930	3.5	64040.960	3.5
272.2080	24.00	-3.61	24282.340	4.0	61008.070	5.0
272.2093	25.01	-0.55	29919.220	2.0	66644.780	1.0
272.2094	23.01	-1.24	20617.050	2.0	57342.590	2.0
272.2102	25.01	-1.00	29951.120	1.0	66676.560	2.0
272.2106	27.00	-1.00	16470.600	1.5	53195.980	2.5
272.2113	22.00	-6.19	11639.804	3.0	48365.090	3.0
272.2131	25.01	-1.91	49465.130	3.0	86190.180	2.0
272.2140	26.01	-2.93	43620.980	1.5	80345.910	.5
272.2161	10.01	-1.86	246597.710	.5	283322.350	1.5
272.2190	70.01	-0.90	34198.789	0.0	70933.918	0.0
272.2194	10.01	-4.66	280173.010	4.5	316897.210	3.5
272.2201	26.01	-3.66	22939.350	2.5	59663.550	1.5
272.2233	9.02	-1.30	452770.850	3.5	489494.530	3.5
272.2249	23.01	-1.73	12545.150	4.0	49268.610	4.0
272.2249	14.01	-1.73	81191.600	5.5	117915.060	.5
272.2255	25.01	-0.38	52373.180	3.0	89096.560	4.0
272.2310	41.00	-1.08	1129.205	0.0	37862.714	0.0
272.2380	90.01	-0.93	1774.465	0.0	38507.030	0.0
272.2480	22.00	-6.01	7255.369	2.0	39375.710	1.0
272.2535	23.01	-2.51	20622.990	3.0	57342.590	2.0
272.2537	28.01	-3.23	77332.470	2.5	114052.040	3.5
272.2567	25.01	-1.89	70231.070	2.0	106950.240	3.0
272.2568	26.01	-4.40	61726.090	3.5	98445.240	4.5
272.2606	23.01	-3.26	32040.760	2.0	68759.400	1.0
272.2610	40.01	.37	1290.520	0.0	38019.982	0.0
272.2650	44.00	.04	9033.642	0.0	45762.564	0.0
272.2680	74.00	.20	14840.984	0.0	51569.501	0.0
272.2700	75.00	-0.16	14115.066	0.0	50843.314	0.0
272.2728	26.01	-0.01	50212.930	2.5	86929.920	3.5
272.2739	24.01	-0.77	12032.720	1.5	48749.570	.5
272.2741	28.01	-4.66	56075.260	2.5	92792.080	3.5
272.2759	24.00	-3.94	20520.920	3.0	57237.500	5.0
272.2797	28.01	-4.56	98822.550	6.5	135538.610	5.5
272.2799	10.01	-4.69	280947.100	1.5	317663.130	1.5
272.2964	24.00	-2.62	20523.690	4.0	57237.500	5.0
272.2983	24.00	-1.80	20523.940	5.0	57237.500	4.0
272.3000	39.00	-0.87	483.945	0.0	37208.146	0.0
272.3024	26.00	-4.88	19621.004	5.0	56334.010	6.0
272.3024	26.02	-4.25	182379.860	5.0	219092.860	5.0
272.3036	25.01	-3.02	52383.720	4.0	89096.560	4.0
272.3090	25.01	-1.57	71390.140	3.0	108102.250	3.0
272.3091	13.01	-1.63	105467.700	2.0	142179.800	1.0
272.3121	25.01	-4.76	55371.300	3.0	92083.000	3.0
272.3142	25.02	-1.69	100085.200	1.5	136796.610	2.5
272.3173	10.00	-4.76	135888.717	1.0	172599.700	1.0
272.3194	9.02	-2.18	390834.600	2.5	427545.310	1.5
272.3200	2.00	-2.11	159856.000	0.0	196577.504	0.0
272.3222	23.01	-2.17	208.890	3.0	36919.230	3.0
272.3246	9.03	-0.63	519341.000	0.0	556051.000	0.0
272.3337	26.01	-2.22	64040.960	3.5	100749.750	2.5
272.3372	26.01	-2.87	25981.650	3.5	62689.960	2.5
272.3380	8.01	-3.61	228723.300	2.5	265468.200	1.5

NOTICE

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